

County Borough of Halifax.



HEALTH DEPARTMENT.

Report

OF THE

MEDICAL OFFICER OF HEALTH,

Together with the Reports of the

SANITARY INSPECTOR

AND

THE BOROUGH ANALYST,

FOR

The Year ended December 31st, 1900.

Printed by order of the Health Committee.

HALIFAX:

WHITLEY & BOOTH, PRINTERS, &c., CROWN STREET.

1901.

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Health Committee.

Mayor.

ALDERMAN W. BREAR.

ALDERMAN J. F. COE, J.P., *Chairman.*

COUNCILLOR T. S. DODD, *Vice-Chairman.*

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„ J. MITCHELL,	„ J. TAYLOR,
„ J. W. CROSSLAND, J.P.	„ G. H. WADSWORTH,
„ J. COLLINSON,	„ H. CLAY,
„ R. MAUDE,	„ G. C. ALDERMAN,
„ I. B. HAINSWORTH,	„ J. BROTHERTON.
„ J. NAYLOR,	

Sub-Committees.

APPOINTED BY THE HEALTH COMMITTEE.

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VICE-CHAIRMAN,	„ J. TAYLOR,
COUNCILLOR J. NAYLOR,	„ J. COLLINSON.
„ G. H. WADSWORTH,	

Goux Sub-Committee.

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VICE-CHAIRMAN,	„ J. TAYLOR,
COUNCILLOR I. B. HAINSWORTH,	„ G. H. WADSWORTH.

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THE CHAIRMAN,	COUN. J. W. CROSSLAND, J.P.,
VICE-CHAIRMAN,	„ W. C. F. SMITH,
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COUNCILLOR H. CLAY,	„ J. COLLINSON.

Horse and Corn Sub-Committee.

THE CHAIRMAN,	VICE-CHAIRMAN.
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Staff of the Health Department.

Medical Officer of Health and Superintendent of the Borough
Fever Hospital.

JAS. T. NEECH, L.R.C.P., D.P.H., &c.

Public Analyst.

W. ACKROYD, F.I.C., F.C.S.

Chief Sanitary Inspector.

DAVID TRAVIS.

Meat Inspector.

J. K. CRAWSHAW.

Assistant Sanitary Inspectors.

JAMES ARCHBELL.

J. W. ASQUITH.

J. WOOD.

J. E. FIRTH.

Foreman Scavenger.

NATHAN GARSIDE.

Chief Clerk.

J. W. JACKSON.

Assistant Clerks.

CHARLES CARLTON.

ERNEST JUBB.

Matron of the Borough Hospital.

MISS ROBISON.

Disinfectors.

T. W. BOOTH.

Laundry Engineer.

W. GUEST.

Porter.

H. VICKERMAN.

Goux Department.

Manager of Yard.

RD. TRAVIS.

Goux Inspectors.

J. HEATH.

S. MAUDSLEY.

Clerk.

HARRY ASKE.



County Borough of Halifax.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH.

INTRODUCTION.

*To the
Chairman and Members of the Health Committee.*

MR. CHAIRMAN AND GENTLEMEN,

I have pleasure in presenting you with the twenty-eighth Annual Report on the Health of the Borough, being the Annual Report of the Medical Officer of Health for the year 1900.

Having only taken up my duties as Medical Officer of Health on September 10th last year, this Report must necessarily partake chiefly of tabulating and shortly discussing the Vital and Mortal Statistics of the Borough during the year under notice.

There is very little in the following Report that requires special notice, but I desire to direct your attention to the fact that our Zymotic death-rate is again the lowest of the 33 great towns, and that we are also amongst the lowest as regards Infant Mortality, only three of these towns being slightly beneath us in that respect.

I beg to direct your attention to the necessity that exists for the provision of a suitable and sufficient Small-pox Hospital. I consider this one of the most pressing needs of the present time. The town has been threatened with this disease on several occasions, and it behoves us to be ready, in order that we may be able to cope with an epidemic, should the necessity arise for so doing. Plans are being prepared for such a Hospital, and the work should be pushed on with all possible speed.

We also require a Destructor to deal with the refuse which is at present being tipped in different parts of the Borough. The tipping of house refuse and rubbish is not only very unsightly, but also not free from danger in many ways. I have known Scarlet Fever to be caught from such rubbish heaps.

It has been suggested that the tram lines might be utilised during the night for the removal of the Goux tubs. I have carefully considered this question, and am of opinion that to do this work at night would necessitate:—

(1) That a tram line be laid into the Goux yard. This would cost a considerable sum of money, and further, I am informed, that there are engineering difficulties in the way of such a line.

(2) That the work of renewing the Goux tubs be done at night. There are some 16,500 Goux closets in the Borough, and only about 4000 of these are within such a distance of the tram lines that they could be transferred directly into a wagon or truck on the lines, consequently the remaining 12,000 odd would be required to be carted during the night to certain centres, and then transferred to the tram wagons.

(3) That a number of specially constructed trucks be purchased for the removal of the tubs. It is necessary that at least 2000 Goux tubs be removed and changed every day, in order to secure that the 16,500 in the Borough be renewed within a reasonable time. I believe a truck to convey these tubs must not be constructed much or any longer than the Bogies now used for conveying stone for the Highways Department. Well, a truck of that size would hold about 18 tubs, that means 111 loads to remove 2000 tubs. But a truck might be constructed to carry two rows or tiers, one above another, which means 36 tubs, or rather over 55 loads to remove the 2000 tubs. I calculate that it would require over half-an-hour on an average for such a truck to leave the yard, reach its destination, load up, return thereto, and unload, consequently such a truck could only convey to the yard 9 loads in the five hours when the lines are free, therefore it would require at least six such trucks to remove the 2000 tubs during the night. These trucks would cost about £360 each, which would, therefore, mean an outlay of £2160. It might be possible, however, for each truck to draw a trailer, in which case three trucks and three trailers might be able to do the work, and this would mean less outlay.

It seems as though it would be less difficult to remove the ashes tub refuse by tram during the night to a Destructor, whenever it should become necessary to do so.

In conclusion I desire to thank the Chief Sanitary Inspector, Mr. Travis, for his valuable assistance to me since I took up my duties here, and I have to acknowledge the hearty co-operation

of the Assistant Inspectors in carrying out the work of the Department.

I have also to thank Mr. J. W. Jackson, the Chief Clerk, who has been ever ready, and has rendered me valuable help in many ways, and Mr. C. Carlton to whom I am indebted for the assistance given in getting out the following tables and statistics. I am indebted to Mr. Whiteley for the meteorological information, and have to thank the Committee for its generous support.

This is the first Annual Report since the decease of the late Medical Officer of Health, Dr. Ainley, and the officials in the Department desire through me to place on record their deep regret at his death, and their high appreciation of the services he rendered to the Department. They considered him to have been most sincere and conscientious in the performance of duty, which, together with his genial manner and consideration for subordinates, endeared him to all with whom he was brought into official contact.

I am, Gentlemen,

Your obedient Servant,

JAS. T. NEECH, L.R.C.P., D.P.H.,

MEDICAL OFFICER OF HEALTH.

TOWN HALL,

HALIFAX,

JUNE, 1901.

Vital and Mortal Statistics.

GENERAL SUMMARY.

	1900.	1899.
	ACRES.	ACRES.
Area of County Borough ...	8725	8209
Rateable Value ...	£474,925	£409,709
Population in 1900 ...	101,187	97,721
„ 1891 Census ...	89,832	89,832
Persons per Acre ...	11·5	11·9
Excluding Illingworth Ward ...	22·4	24·4
Average Number of Persons per House, 1891 Census ...	4·6	4·6
Birth Rate, 1900 ...	22·8	22·9
„ Average for pre- vious 10 years ...	24·2	24·5
Death Rate, 1900 ...	18·1	18·1
„ „ Corrected ...	17·8	...
Death Rate, Average for pre- vious 10 years ...	18·6	18·9
Death Rate for seven principal Zymotic Diseases ...	1·2	1·5
Death Rate, the mean for 10 years of Zymotic Diseases 1891 to 1900 ...	1·4	1·4
Death Rate of Infants under 1 year per 1000 Births ...	135·	162·
Illegitimate Births ...	75	58
Average Age at Death, 1900— Males ...	38·3 years	35·1 years
Average Age at Death, 1900— Females ...	41·2 „	38·4 „

Infants under one year reckoned one year.

REGISTRAR GENERAL'S REPORT.

CITIES and BOROUGHES.	Estimated Population in the Middle of 1900.	Persons to an Acre, 1900.	Annual Rate per 1000 living.										Deaths under 1 year to 1000 Births	Annual Death Rate per 1000 living.			Percentage to Total Deaths.		
			Births.	Deaths.	Deaths from									Aged 1 to 60 years.	Aged 60 years and upwards.	Inquest Cases.	Deaths in Public Institutions	Uncertified Deaths.	
					Principal Zymotic Diseases.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhoea.							Violence.
33 TOWNS	11,610,296	33.8	29.4	19.5	2.50	0.00	.43	.13	.35	.45	.20	.94	.73	172	10.6	79.8	7.6	22.2	1.3
London	4,589,129	61.5	28.6	18.8	2.22	0.00	.42	.08	.34	.43	.17	.78	.80	160	10.2	77.2	9.4	30.5	0.6
West Ham	314,472	66.8	28.6	15.9	3.10	...	.48	.05	.50	.59	.18	1.30		189	8.2	66.3	6.7	15.1	1.6
Croydon	131,186	14.6	24.9	14.6	1.44	...	.15	.04	.18	.44	.07	.56		132	7.0	69.1	9.2	18.8	—
Brighton	124,148	49.1	23.6	17.8	2.24	...	.43	.10	.58	.28	.09	.76		166	9.0	68.7	6.7	22.4	0.5
Portsmouth	194,955	41.8	25.7	17.3	2.38	...	.01	.06	.53	.46	.47	.85		155	9.3	67.5	7.2	18.0	1.8
Plymouth	102,161	44.6	27.9	20.8	2.35	...	.93	.01	.11	.12	.21	.97		175	10.7	70.2	5.7	11.7	0.3
Bristol	324,973	27.8	27.8	16.7	1.88	...	.62	.12	.31	.17	.13	.53		133	9.0	68.8	8.4	18.0	0.6
Cardiff	194,247	32.0	26.8	13.8	2.08	0.01	.84	.06	.42	.21	.12	.42		141	7.8	61.4	8.5	11.8	0.6
Swansea	105,472	20.7	26.7	17.1	2.17	...	.64	.07	.58	.15	.15	.58		175	9.4	70.3	7.2	10.4	1.1
Wolverhampton	89,598	25.4	33.5	22.5	3.65	0.01	.82	.09	.10	.79	.45	1.39		206	11.1	82.2	6.5	13.9	0.9
Birmingham	519,610	40.9	32.7	21.5	2.72	...	.25	.19	.14	.58	.35	1.21		199	11.1	86.7	3.2	20.4	2.3
Norwich	114,855	15.2	28.4	17.6	2.08	...	.01	...	.10	.59	.12	1.26		178	7.1	69.2	5.9	11.9	1.0
Leicester	219,169	25.5	28.2	17.4	3.54	...	.23	.13	.15	.21	.12	1.34		175	9.3	68.7	6.0	18.6	1.9
Nottingham	242,676	22.1	27.7	19.1	2.35	...	.18	.22	.12	.42	.33	1.08		196	9.3	78.3	6.3	16.7	0.8
Derby	107,991	31.3	26.9	17.5	2.30	...	.90	.20	.06	.48	.19	.47		174	8.7	84.7	10.1	17.8	—
Birkenhead	117,170	33.6	29.0	16.8	1.39	...	.09	.03	.09	.24	.14	.80		160	8.5	79.5	8.3	15.1	0.9
Liverpool	634,780	48.0	36.0	25.7	3.18	0.03	.23	.17	.26	.84	.21	1.44		186	14.8	96.9	5.8	24.7	4.1
Bolton	164,240	10.8	29.0	19.5	2.42	...	.23	.12	.12	.53	.27	1.15		171	10.7	91.7	7.3	11.0	0.5
Manchester	548,768	42.5	32.3	24.1	3.05	...	.47	.19	.18	.68	.14	1.39		189	14.3	96.7	7.8	22.4	1.0
Salford	220,816	42.7	33.1	25.1	3.98	0.00	.56	.45	.41	.84	.31	1.41		207	14.4	104.3	6.8	18.6	0.9
Oldham	153,297	32.4	24.2	19.6	2.44	0.02	.71	.36	.13	.58	.11	.53		172	12.0	84.1	5.6	12.1	0.1
Burnley	116,730	29.8	25.3	16.3	2.53	...	.14	.48	.19	.36	.14	1.22		205	8.6	69.6	4.5	11.2	1.3
Blackburn	137,107	19.7	25.1	20.5	3.52	0.01	.57	.61	.65	.45	.22	1.01		220	11.1	91.7	4.3	9.7	2.6
Preston	118,902	29.1	29.0	24.0	4.37	...	1.07	.29	.38	.57	.39	1.67		236	12.9	93.9	2.6	9.8	3.1
Huddersfield	104,484	8.8	22.8	16.8	1.52	...	.55	.16	.02	.18	.18	.43		132	9.2	86.5	4.3	12.1	2.9
Halifax	100,710	10.3	23.0	18.1	1.32	...	.50	.17	.13	.07	.22	.23		132	9.9	90.1	4.4	16.8	4.0
Bradford	291,535	12.8	23.1	16.4	1.36	...	.39	.25	.11	.00	.23	.29		141	8.9	85.1	6.9	14.7	0.9
Leeds	431,287	20.0	30.4	20.0	2.92	0.00	.58	.12	.59	.38	.20	1.05		183	10.9	82.5	8.5	12.5	0.5
Sheffield	365,922	18.6	34.1	22.6	4.33	...	.55	.17	1.26	.55	.28	1.52		200	12.4	84.6	4.2	13.8	3.0
Hull	238,736	26.5	32.9	19.7	3.10	0.08	.58	.16	.08	.31	.21	1.68		183	10.0	76.3	6.4	15.0	2.1
Sunderland	147,398	44.7	35.8	21.4	2.52	...	.59	.27	.15	.20	.37	1.94		169	11.5	84.7	6.2	14.4	1.8
Gateshead	109,403	34.9	36.3	19.0	1.75	...	.14	.07	.05	.56	.08	.85		169	9.8	77.2	2.9	7.7	3.0
Newcastle	234,369	43.6	30.4	19.5	1.38	...	.39	.07	.14	.33	.08	.37	1.07	170	11.2	79.0	9.1	18.3	1.0

Population and Area of the Borough.—The Borough up till November 9th, 1900, was divided into Thirteen Wards, but on that date two others, viz.:—Warley and Northowram were added. In this report, however, for purposes of convenience, I shall not take into account the latter, and as far as it is concerned shall treat the Borough as it was constituted previous to that date. The following table gives the Area and Estimated Population of each Ward in the middle of 1900.

WARDS.	Aeres.	Population.	Number of Persons to an Acre.	Houses built during the year 1900.
SOUTHOWRAM ...	777	7598	9·0	13
SKIRCOAT ...	513	8206	15·9	87
EAST ..	191	8620	45·1	3
SOUTH ...	296	8712	29·4	20
KINGSTON ...	238	8964	37·6	45
WEST ...	86	9690	112·2	...
FELLON ...	241	8170	33·9	145
CENTRAL ...	82	8950	109·1	...
NORTH ...	168	8129	48·3	...
AKROYDON ...	582	7152	12·2	52
OVENDEN ..	531	7146	13·4	57
ILLINGWORTH ...	4504	7280	1·6	6
COPLEY ...	516	2570	4·9	...
TOTAL ...	8725	101,187	11·5	428

Marriages.—The number of marriages which took place within the Borough during the year,

1900, was 132, which was equal to a marriage rate of 11·2 per 1000. The marriage rates during the previous three years were, 1897, 15·9; 1898, 10·4; 1899, 12·3 respectively:

Birth=rate.—During the year 2316 births were registered within the Borough, of which 1179 were males, and 1137 females. This gives a birth-rate of 22·9 per 1000, which is the same as that of the previous year, but a decrease of 1·4 on the average of the ten years, 1891 to 1900. The mean birth-rate of the 33 great towns for the year, 1900, was 29·4 per 1000. Halifax is the lowest birth-rate of these towns except Huddersfield, which is 22·8 per 1000. The birth-rates of the other Yorkshire County Boroughs were, Leeds 30·4, Sheffield 34·1, Bradford 23·1, and Hull 32·8 per 1000 respectively. See Table, page 9.

TABLE SHOWING NUMBER OF BIRTHS AND BIRTH-RATES IN EACH QUARTER OF 1900.

	Males.		Females.		Total.		Birth-rate per 1000 living.	
	1900.	1899.	1900.	1899.	1900.	1899.	1900.	1899.
1st Quarter ...	303	316	281	260	584	576	23·0	23·5
2nd „ ...	261	286	262	278	523	564	20·6	22·0
3rd „ ...	323	286	300	299	623	585	24·6	23·9
4th „ ...	292	244	294	270	586	514	23·1	21·0
Total ...	1179	1132	1137	1107	2316	2239	22·8	22·9

Death-rate. — During the year 1832 deaths occurred within the Borough, of which 933 were males, and 899 were females. That number includes 42 deaths of persons belonging to other districts which occurred in the Infirmary and Workhouse, also there were 19 deaths outside the district of persons belonging thereto, so that excluding the former and including the latter the correct number of deaths during the year was 1809. This gives a death-rate of 17·8 per 1000, which is slightly below that of the previous year. The death-rates for the four previous years were:—1896, 17·5; 1897, 16·3; 1898, 17·8; and 1899, 18·1 per 1000 respectively. The average for the previous ten years was 18·6 per 1000. The death-rate in the 33 great towns for the year 1900 was 19·5 per 1000, and varied between 13·8 in Cardiff, 14·6 in Croydon, and 25·1 in Salford, 25·7 in Liverpool. The death-rates in the other Yorkshire County Boroughs for the same year were:—Leeds 20·0, Sheffield 22·6, Bradford 16·4, Hull 19·7, Huddersfield 16·8 per 1000 respectively. See Table, page 9.

Zymotic Death-rate. — The seven principal zymotic diseases caused 126 out of the 1809 deaths belonging to the Borough, which gives a death-rate of 1·2 per 1000. This is slightly below that of the three previous years, the zymotic death-rates of which were 1897, 1·3; 1898, 2·1; and 1899, 1·5. The mean for the ten years 1891 to 1900 was 1·4 per 1000. For the year 1900 the average zymotic death-rate of the 33 great towns was 2·5 per 1000, or double that of ours. The zymotic death-rates of the other Yorkshire County Boroughs for 1900 were:—Leeds,

2·9; Sheffield, 4·3; Bradford, 1·35; Hull, 3·1; and Huddersfield, 1·5 per 1000 respectively. Halifax had the lowest zymotic death-rate of the 33 great towns for the year 1900. Table 3, page 26, gives the number of deaths from each zymotic disease for the years 1881 to 1900.

Infant Mortality.—During the year there died 314 infants under 1 year of age, 49 less than during the previous year, when the number was 363. This gives a mortality of 135 deaths to 1000 births registered. During the preceding three years the mortality was, 1897, 140 deaths; 1898, 163 deaths; and 1899, 159 deaths per 1000 births respectively. In the 33 great towns the rate of infant mortality in 1900 averaged 172 per 1000 births, or 37 per 1000 above that of Halifax, and ranged between 132 at Croydon and Huddersfield, and 236 at Preston. The infant mortality of the other Yorkshire County Boroughs was:—Leeds, 183; Sheffield, 200; Bradford, 141; and Hull, 183 per 1000 respectively.

Mortality at Groups of Ages.—Of the 1809 deaths during the year 1900 belonging to Halifax, 487 were children under 5 years of age, or 26·9 of the total deaths; between 5 and 15, 65 deaths occurred, or 3·6 per cent.; between 15 and 25, 86 deaths, or 4·8 per cent.; between 25 and 60 years, 553 deaths, or 30·6 per cent.; and 60 years and upwards, 616 deaths, or 34·1 per cent.

The following Table shows the total number of deaths of males and females, the total age lived, and average age at death at different age periods:—

MALES.				FEMALES.			
	Deaths.	Total Years.	Average Ages.		Deaths.	Total Years.	Average Ages.
0·1 ...	170	170	...	0·1 ...	144	144	...
1·5 ...	99	224	2·2	1·5 ..	77	187	2·4
5·15 ...	37	308	8·3	5·15 ...	34	272	8·0
15·25 ..	35	683	19·5	15·25 ...	54	1067	19·7
25·60 ...	317	14,248	44·9	25·60 ...	248	10,687	43·0
60 & upwards	275	19,159	69·6	60 & upwards	342	24,733	72·3
Total ...	933	34,792	38·3	Total	899	37,090	41·2

Causes of Death.

- (1) ZYMOTIC OR INFECTIOUS DISEASES:—Scarlet Fever, 17; Measles, 49; Diphtheria, 12; Whooping Cough, 8; Typhus Fever, 1; Enteric Fever, 20; Diarrhœa, 19; Influenza, 55; Puerperal Fever, 3; other Septic diseases, 6.
- (2) CONSTITUTIONAL DISEASES:—Rheumatic diseases, 18; Malignant diseases (Cancer, Sarcoma, &c.), 70; Phthisis, 153; Tabes Mesenterica, 27; Tubercular Meningitis, 37; other Tubercular diseases 18; other Constitutional diseases, 28.
- (3) DIETETIC DISEASES:—Starvation, 1; Alcoholism, 4.
- (4) LOCAL DISEASES:—Nervous System, 138; Circulatory System, 233; Respiratory System, 428; Digestive System, 108; Urinary System, 54; Reproductive System, 16; Locomotive System, 1; Integumentary System, 6.

- (5) **DEVELOPMENTAL DISEASES**:—Premature Birth, &c., 51 ; Congenital Malformation, 7 ; Old age, 126.
- (6) **DEATHS FROM ACCIDENTS**:—Fractures and Contusions, 14; Burns and Scalds, 8; Drowning, 6; Suffocation, 1 ; other Accidents, 21.
- (7) **DEATHS FROM SUICIDE**:—Poison, 5 ; Drowning, 2; others not described, 3.
- (8) **DEATHS** from all other and ill-defined causes, 59.

Small-pox.—For four years the Borough had been free from this disease, but in May, 1900, the year under discussion, a case was reported from College Terrace, Savile Park. The patient was a Commercial Traveller, and is supposed to have contracted the disease whilst travelling at Stalybridge. A further case was reported from the same house, the wife of the above, who caught the infection from her husband. Both cases were removed, by arrangement to Warley Joint Hospital, as there was no Small-pox Hospital at that time belonging to the Borough. In the meantime, a temporary Hospital was erected at Belle Vue, and was ready for the reception of patients on June 28th. The first case had already recovered and been discharged, but the second was there transferred to Belle Vue. The family were kept in quarantine during the incubation period, and the house and premises thoroughly disinfected and cleansed. Both cases recovered, and fortunately the disease did not spread.

Scarlet Fever.—This disease was prevalent in the Borough, more or less, throughout the year,

though at no time did it assume a serious epidemic form, although I was afraid, from the sudden increase in the number of cases notified about the end of October, that such was going to be the case, especially in Southowram Ward. It is spread to a very great extent through carelessness and ignorance. In mild attacks the parents do not send for Medical advice, but keep the children at home for a week or two, and then allow them out of doors, where they mix with others, or even send them to school, and thus the disease is spread. The School Board authorities notify us of any suspicious cases that come to their knowledge, but over and above this, I send the Sanitary Inspectors from time to time to make enquiries at the Schools, and obtain lists of absentees. These are all visited, and where there was suspicion of fever, a visit was paid by myself. In this way, about 30 cases of the disease were discovered last autumn, which otherwise would not have come to our knowledge. During the year there were notified 330 cases of this fever, against a total of 762 during the previous year, and an average of 453 for the past ten years. Southowram Ward suffered most from the disease, in proportion to its population, and Copley least. See table 9, page 32. The disease caused 17 deaths during the year, which gives a death rate of 0.16 per 1000, and a case mortality of 5 per cent. of the number notified.

Fever.—(Including typhus, typhoid, and continued.) During June and July five cases of typhus fever were reported. They were removed to Hospital for isolation, and one died. The other

members of the family were kept in quarantine at the Hospital, and the house was thoroughly cleansed and disinfected at the expense of the Corporation. During the year 79 cases of typhoid were notified, which is less than the number reported during the previous year, but slightly above the average for the past ten years which was 73. The disease was present in the Borough more or less throughout the year, but its greatest prevalence was during the month of December, when 17 cases were reported. There were 21 deaths from fever, which gives a death rate for the year of 0·2 per 1000, and a case mortality of 26 per cent. of those attacked with the disease. During the previous year the death rate from this cause was 0·22 per 1000, and the case mortality 24 per cent. of those attacked.

Diphtheria.—During the year 41 cases of this disease were reported, which is less than the number notified during the previous year, and is also below the average of the number reported during the past ten years which was 44. This disease caused 12 deaths during the year which gives a death rate of 0·11 per 1000, and a case mortality of 29 per cent. of those attacked, compared with a death rate of 0·14, and a case mortality of 24 per cent. during the previous year.

The following Table gives the sanitary conditions and the probable causes of the three principal notifiable diseases.

DISEASES.	Number of Cases notified.	Drainage.		Ventilation.		Old Middens.	Goux Closets.	Water Closets.	Probable or Assigned Cause.					
		Good	Bad	Good	Bad				From a Cold.	From a previous Case in the same House or School.	From Defective Drains.	Contracted from House or Workshop Visiting.	Other Cases in the neighbourhood.	No Trace.
Scarlet Fever .. Deaths, 17	330	319	11	330	...	13	28	235	...	71	...	19	64	176
Typhoid Fever... Deaths, 20	79	69	10	79	...	3	67	9	19	7	10	8	3	32
Diphtheria ... Deaths, 12	41	38	3	41	...	...	33	8	6	2	1	3	...	29
Total ...	450	426	24	450	...	16	38	252	25	80	11	30	67	237
Total Deaths, 49														

Measles.—This disease was rather prevalent in the Borough during the early months of the year, but fortunately did not assume a serious epidemic form. It is one of the most difficult diseases to control, because it is infectious from the first, and before it becomes sufficiently developed to be diagnosed as such, and because it is regarded by parents as a trivial affection that isolation is not resorted to. Measles caused 49 deaths during the year, which gives a death rate of 0·4 per 1000, against a death rate of 0·14 during the previous year.

Whooping Cough.—The Borough remained comparatively free from this disease throughout the

year. Whooping Cough not being notifiable, our chief source of information regarding its prevalence, is the School authorities. Only eight deaths were registered from this cause during the year, giving a death rate of 0·079 per 1000 against a death rate of 0·2 during the previous year, and 0·37 during 1898 per 1000 respectively.

Diarrhoea.—There were 19 deaths registered from this cause during the year, this is much below the number for the previous year, which was 55, and gives a death rate of 0·18 per 1000, which is certainly a very low rate compared with other towns. Diarrhoea as a rule becomes most prevalent and the death rate therefrom rises, when the four-foot earth thermometer reaches 56°. This it did on July 27th, and remained at that point until August 13th, but the death rate from Diarrhoea during the year under notice, did not reach its highest until October, when the earth thermometer stood at 51°.

Influenza.—This disease again visited the Borough during the early months of the year under notice, assumed a somewhat serious epidemic form, and 56 deaths resulted therefrom. It appears that it has been an annual visitant during the past decade, but last year it was more fatal than it had been for some years past. During the five previous years the number of deaths from this cause was 22, 37, 13, 13, and 28 respectively.

Respiratory Diseases.—Under this heading are included pneumonia, bronchitis and pleurisy, and during the year 368 deaths were registered as having resulted from these diseases, viz:—Pneumonia, 134, bronchitis, 227, and pleurisy, 7. This

is an increase of 8 deaths over the number for the previous year. It is also the largest number of deaths resulting from these causes in one year, since 1896, and is considerably above the average for the previous five years which was 347. It gives a death rate for the year of 3·7 per 1000, against 3·6 for the previous year.

Phthisis.—During the year phthisis caused 152 deaths within the Borough, which is the highest number recorded since 1896. This gives a death rate of 1·5 per 1000. There were also 82 deaths from other tubercular diseases, which with the 152 due to phthisis, make 234 deaths in all, due to tubercular affections, and this gives a death rate for the year of 2·3 per 1000 of persons suffering from the various forms of tubercular disease.

Among other causes of death during 1900, 161 were registered as due to heart disease, compared with 171 during the previous year, and one to erysipelas.

Various forms of accident caused 50 deaths during the year, which are equal to 2·7 per cent. of the total deaths registered, and 4·4 per cent. of the total deaths were registered on the authority of the Coroner's certificate.

There occurred some 72 deaths which were neither certified by a Registered Practitioner or the Coroner, which is equal to 4 per cent. of the total deaths. This is a very high percentage, and is the highest of all the 33 great towns except Liverpool, where the uncertified deaths reached 4·1 per cent.

Arsenical Beer.—Arsenical poisoning became very prevalent in certain parts of the Country during the Autumn of the year under notice. It was found to be due to small quantities of arsenic found to be present in beer. That being so, I made enquiries at the Infirmary, Workhouse, and from the private Practitioners in the Borough. There were two or three cases of peripheral neuritis in the Workhouse, but they belonged to outside districts. A number of samples of beer and other substances into the composition or manufacture of which sugar or glucose enter were procured and submitted to the Public Analyst, who certified all to be free from arsenic; consequently there is every reason to believe that the Borough so far as it was concerned was free from arsenical poisoning.

BOROUGH FEVER HOSPITAL.

On January 1st, 1900, there remained in the Hospital 63 patients. See Table 5 page 28, viz.:—3 suffering from typhoid, and 60 from scarlet fever. There were admitted during the year a total of 306 cases, and there remained in the Hospital on December 31st exactly the same number that was present on January 1st, viz.:—63.

Scarlet Fever.—There were 250 cases of this disease admitted during the year, two of these were from outside districts, so that 248 cases out of 330 notified in the Borough, were removed to Hospital, or 75 per cent. of the total reported. Out of the 250 cases, 8 died, which gives a mortality of 3·2 per

cent. There were 242 discharged, and the average period during which each remained in Hospital was eight weeks.

Typhoid Fever.—There were 44 cases of this disease admitted during the year, of which 3 belonged to other districts, so that 41 cases out of 79 notified in the Borough, were removed to Hospital for isolation, or 52 per cent. of the total number reported. Out of the 44 above mentioned cases 10 died, which gives a mortality of 22·7 per cent. There were 34 discharged, and the average period during which each remained in Hospital was 7 weeks.

Typhus Fever.—Five cases of this disease were removed to Hospital, two of which died, and three were discharged after remaining in the Institution for an average period of seven weeks.

Diphtheria.—Four cases were admitted to the Hospital, of which two died and two were discharged, after remaining in the Institution for a period of four weeks.

Small-pox.—Two cases of this disease were removed, first to the Warley Joint Fever Hospital, and then to the Small-pox Hospital, Belle Vue. They both recovered, and were ultimately discharged, having been isolated for an average period of $6\frac{1}{2}$ weeks.

The new Laundry has been finished, is now in full working order, and is undoubtedly one of the most complete and modern establishments of its kind in the district. This cannot be said however of the Hospital itself. In my opinion, the old

building in front should be replaced by modern wards for Typhoid Fever, and seeing that the number of available beds is a good deal below what is considered requisite, viz. :—one bed per 1000 inhabitants, I think at least another ward should be erected on the vacant land next to the Laundry.

The administration of the Hospital is satisfactory in every way under the able management of the Matron (Miss Robison), and the constant and unremitting attention bestowed upon the patients by the staff has undoubtedly added greatly to the popularity of the Institution.

TABLE 1.—POPULATION, BIRTHS, DEATHS, AND INFANT MORTALITY IN THE
BOROUGH OF HALIFAX, 1881-1900.

Years.	Population.	Births.	Deaths.	Rate per 1000 living.		Deaths of Infants under One Year to 1000 Births.
				Births.	Deaths.	
1881	...	2338	1589	31.7	21.5	155
1882	...	2247	1519	30.1	20.3	167
1883	...	2162	1491	28.6	19.7	150
1884	...	2262	1786	29.6	23.4	180
1885	...	2231	1508	28.9	19.5	133
1886	...	2255	1775	28.8	22.7	173
1887	...	2249	1660	28.4	21.0	149
1888	...	2282	1571	28.2	19.6	154
1889	...	2192	1667	25.7	20.6	176
1890	...	2277	1827	27.8	22.3	173
1891	...	2160	1877	26.0	22.6	172
1892	...	2169	1642	25.8	19.5	163
1893	...	2254	1591	24.5	17.2	174
1894	...	2128	1522	22.9	16.3	135
1895	...	2186	1803	23.3	19.2	158
1896	...	2329	1667	24.4	17.4	150
1897	...	2147	1570	22.4	16.3	140
1898	...	2205	1723	22.7	17.8	167
1899	...	2239	1772	22.9	18.1	162
1900	...	2316	1832	22.8	18.1	135

GENERAL SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT THE PUBLIC LIBRARY, BELLE VUE, FROM JANUARY 1st, 1900, TO DECEMBER 31st, 1900,
BY J. WHITELEY, SECRETARY AND LIBRARIAN.

LATITUDE OF STATION = 53° 43' N. LONGITUDE = 1° 52' W. HEIGHT ABOVE SEA LEVEL, 625 FEET.

1900.	Pressure. of Atmosphere in Month.		Temperature of Air in Month.						Mean Temperature.		Vapour.			Mean degree of Humidity. Saturation = 100.	Mean Weight of cubic foot of Air.	Mean Reading of Thermometer.		Wind.				Mean amount of Cloud.	Rain.		REMARKS.	
Month.	Mean.	Range.	Highest.	Lowest.	Range.	Mean.			Air.	Dew Points.	Elastic Force.	In a cubic foot of Air.				Maximum in Sun's Rays.	Minimum on Grass.	Estimated Strength.	Relative proportion of				No. of days it fell.	Amount Collected.		
						Of all Highest.	Of all Lowest.	Daily Range.				Mean.	Short of Saturation						N.	E.	S.	W.				
	ins.	ins.	°	°	°	°	°	°	°	°	ins.	grs.	grs.		grs.	°	°							ins.		
January	... 29.179	1.070	48.6	29.3	19.3	41.8	34.9	6.9	38.3	35.2	.205	2.4	0.4	89	543	47.5	...	0.8	7	5	5	14	8.0	27	4.77	The observations have been reduced to mean values by Glaisher's Barometrical & Diurnal Range Tables, and the Hygrometrical results have been deduced from the seventh edition of Hygrometrical Tables, after corrections for Index errors of the Instruments employed.
February	... 28.869	1.772	52.9	16.6	36.3	38.6	29.7	8.9	34.0	31.5	.178	2.1	0.3	90	542	57.5	...	0.8	6	8	6	8	8.2	22	5.74	
March	... 29.359	1.260	50.1	22.6	27.5	42.1	31.9	10.2	36.3	32.4	.184	2.1	0.4	84	549	64.6	...	0.8	11	9	4	7	7.5	16	1.02	
April	... 29.247	1.314	70.1	24.8	45.3	52.0	37.6	14.4	43.8	37.5	.224	2.6	0.7	78	538	83.6	...	1.0	7	3	5	15	7.2	13	1.44	
May	... 29.288	1.066	63.2	34.4	28.8	54.6	42.3	12.3	47.2	39.3	.241	2.8	0.9	75	535	85.9	...	0.8	9	8	5	9	7.9	10	1.27	
June	... 29.243	0.812	76.9	42.1	34.8	63.9	50.0	13.9	55.5	46.0	.312	3.6	1.2	71	525	106.0	...	0.7	7	7	6	8	7.0	17	2.89	
July	... 29.316	0.740	82.0	40.6	41.4	69.1	54.2	14.9	60.5	51.1	.377	4.2	1.7	71	521	110.7	...	0.7	6	4	6	15	6.6	12	3.51	
August	... 29.286	1.259	72.0	44.8	27.2	63.4	51.1	12.3	56.0	48.6	.345	3.9	1.1	76	527	96.4	...	0.8	5	9	8	9	7.2	16	6.36	
September	... 29.425	1.030	67.6	42.8	24.8	61.0	48.6	12.4	53.8	47.8	.330	3.7	0.9	79	530	93.8	44.0	0.7	5	3	5	17	5.9	8	0.68	
October	... 29.216	1.370	64.1	33.8	30.3	53.0	43.3	9.7	47.1	43.1	.278	3.2	0.5	87	535	77.4	44.8	0.8	7	4	6	14	6.7	21	4.35	
November	... 29.034	1.242	59.5	30.2	29.3	46.6	40.1	6.5	43.1	38.9	.234	2.7	0.5	85	535	55.4	37.0	0.6	5	8	7	10	8.5	23	3.31	
December	.. 29.133	1.582	56.0	31.8	24.2	46.6	40.5	6.1	43.7	41.1	.257	3.0	0.3	87	536	51.5	38.1	0.8	3	2	9	17	8.8	20	4.34	
Annual Means	29.216	1.210	63.6	32.8	30.8	52.7	42.0	10.7	46.6	41.0	.264	3.0	0.7	81	534	77.5	...	0.8	7	6	6	12	7.5	
Annual Means between Latitudes 53° and 54.	29.569	...	71.7	32.2	39.5	55.0	43.2	12.8	48.3	42.4	.304	3.2	0.8	80	539	81.2	38.2	0.9	6	6	7	12	6.2	

NOTE.—The Annual Means give the Averages for the Twelve Months. The next lower line of numbers give similar Averages for Stations between the 53rd and 54th Parallels of Latitude, between which Halifax lies; these numbers have been adapted from those given by Mr. Glaisher, in his Meteorological Reports, published in the Registrar General's Quarterly Returns.

The Mean Monthly Readings of the Earth Thermometer, four feet below the surface, were as follows:—January, 41°; February, 40°; March, 40°; April, 42°; May, 45°; June, 50°; July, 55°; August, 56°; September, 54°; October, 51°; November, 48°; December, 46°. The Highest Readings = 56°, July 27th to August 13th; the Lowest Readings = 39°, February 20th to February 28th

Rain fell on 205 days, and measured 39.68 inches.

TABLE 2.—DEATH-RATES IN GROUPS OF AGES IN THE BOROUGH OF HALIFAX,
1881-1900.

Years.	Death-Rate per 1000 living in each group, 1891 Census.					
	All Ages.	0-5.	5-15.	15-25.	25-60.	60 and upwards.
1881	...	21.5	68.0	...	...	77.5
1882	...	20.3	62.9	4.3	7.0	74.2
1883	...	19.7	49.6	5.1	5.7	90.1
1884	...	23.4	70.0	5.2	5.3	85.5
1885	...	19.5	50.3	4.9	5.2	83.3
1886	...	22.7	68.5	5.3	6.0	92.4
1887	...	21.0	54.8	4.0	6.0	88.2
1888	...	19.6	55.4	3.6	3.9	93.8
1889	...	20.6	59.7	3.5	4.6	84.2
1890	...	22.3	59.1	4.3	6.0	94.3
1891	...	22.6	63.3	4.2	5.6	96.6
1892	...	19.5	54.0	3.9	4.4	89.2
1893	...	17.2	62.0	2.1	3.0	75.6
1894	...	16.3	50.7	2.6	4.8	74.9
1895	...	19.2	56.5	2.1	5.8	92.9
1896	...	17.5	55.9	1.8	4.4	85.6
1897	...	16.3	52.3	2.1	4.4	77.4
1898	...	17.8	59.3	2.3	4.4	84.8
1899	...	18.1	53.6	2.5	3.9	91.9
1900	...	18.1	52.3	2.4	5.3	102.0

TABLE 3.—SHOWING DEATHS FROM ZYMOTIC DISEASES IN THE BOROUGH OF HALIFAX,
1881-1900.

Years.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Typhus.	Enteric Fever.	Ill- Defined Fever.	Diarrhoea and Dysentery.	Principal Zymotic Diseases.	Death-rate per 1000 living from these Diseases.
1881	...	6	102	4	17	21			6	162	2.19
1882	...	11	21	2	11	1	22	...	25	93	1.24
1883	...	1	9	3	7	1	26	5	8	60	0.79
1884	...	57	28	3	33	1	22	2	38	184	2.41
1885	1	...	32	7	12	1	12	2	20	87	1.13
1886	...	85	9	16	11	1	13	2	38	175	2.22
1887	...	14	33	6	11	...	12	...	23	99	1.24
1888	1	10	21	3	35	...	9	1	14	94	1.16
1889	1	70	7	7	2	...	22	3	16	128	1.58
1890	...	25	24	12	15	1	13	1	13	104	1.27
1891	...	39	36	2	58	...	22	...	2	159	1.91
1892	19	64	7	14	9	...	7	...	7	127	1.51
1893	33	5	3	18	32	...	12	...	38	141	1.70
1894	4	32	4	11	21	...	5	...	4	81	0.9
1895	...	9	6	12	24	...	17	...	53	121	1.29
1896	...	15	...	16	33	...	22	...	14	100	1.05
1897	...	47	22	7	12	...	17	...	28	133	1.37
1898	...	70	14	8	36	...	19	...	57	204	2.10
1899	...	14	26	14	22	...	22	2	55	155	1.5
1900	...	49	17	12	8	1	20	...	19	126	1.2

TABLE 4.—SHOWING WHETHER MOTHERS OF CHILDREN WHO HAVE DIED UNDER FIVE YEARS OF AGE IN 1900 WORK OUT OR ARE ENGAGED AT HOME.

WARDS.			At Home.	Work Out.
OVENDEN	...	...	11	...
AKROYDON	...	...	3	...
NORTH	...	...	12	2
CENTRAL	...	...	38	2
WEST	...	...	38	1
SOUTH	...	...	14	...
EAST	...	...	23	3
SOUTHOWRAM	...	...	26	4
SKIRCOAT	...	..	18	...
COPLEY	...	...	7	...
PELLON	...	...	36	...
KINGSTON	...	...	32	...
ILLINGWORTH	...	...	16	...
WORKHOUSE	...	...	1	...
INFIRMARY	...	...	2	...
HOSPITAL	...	...	2	...
TOTAL			279	12
,, 1899			374	36
,, 1898			494	31
,, 1897			432	31
,, 1896			445	37
,, 1895			454	41
,, 1894			418	42

The particulars of 199 deaths, in addition to the above, were not given.

This Table is made year by year to meet the allegations of those who say that deaths of young children in manufacturing towns are due to the working out of the mothers.

TABLE 5.—SHOWING THE NUMBER OF CASES ADMITTED
INTO THE BOROUGH INFECTIOUS DISEASES
HOSPITAL DURING THE YEAR 1900.

	Small-pox.	Typhoid.	Scarletina.	Others.	Total.
Cases remaining in Hospital January 1st, 1900 ...	...	3	60	...	63
Cases admitted during the year	3	44	250	9	306
Total ...	3	47	310	9	369
Recoveries ...	3	34	242	5	284
Deaths ..	...	10	8	4	22
Cases remaining in Hospital December 31st, 1900 ...	...	3	60	...	63

TABLE 6.—SHOWING THE NUMBER OF CASES ADMITTED
SINCE OPENING, AND TOTAL DEATHS AND
RATE PER CENT.

	Small-pox.	Typhus.	Typhoid.	Fever.	Scarletina.	Others.	Total.
Number of Cases admitted since the opening ...	685	34	730	62	1881	138	3530
Number of Deaths since the opening ...	71	16	151	8	82	15	343

Percentage of Deaths from all causes to whole number of
Cases admitted since the opening... 9.71

TABLE 7.—SHOWING INQUESTS IN THE BOROUGH DURING THE YEAR 1900.

Verdicts.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Accidental Deaths	7	5	2	3	3	1	1	4	4	5	5	2	42
Natural Causes	2	...	1	...	2	3	2	...	1	1	1	2	15
Suicide by various means	...	1	1	...	...	1	2	2	...	1	...	3	11
Other Verdicts	1	...	2	1	1	...	...	3	1	...	...	1	10
Murder	...	...	...	...	...	...	..	...	1	...	1	...	2
Total 1900	10	6	6	4	6	5	5	9	7	7	7	8	80
" 1899	7	4	8	9	8	6	13	4	3	6	1	5	74
" 1898	11	7	5	8	10	10	7	9	3	3	9	8	90
" 1897	8	8	7	6	9	5	7	3	4	10	6	16	89
" 1896	6	7	12	4	6	8	5	9	5	6	5	15	88
" 1895	12	9	6	8	9	7	9	6	6	8	9	7	96
" 1894	13	7	7	6	2	6	10	4	3	6	3	11	78
" 1893	7	2	5	4	5	6	2	3	3	3	10	6	56
" 1892	3	1	11	10	4	7	6	6	6	3	6	6	69
" 1891	3	8	3	4	6	1	6	6	1	3	2	3	46
" 1890	4	8	7	3	3	4	4	8	3	3	3	6	56
" 1889	3	4	5	6	5	5	7	2	5	1	6	3	52
" 1888	3	6	2	1	5	8	3	3	2	3	1	2	39
" 1887	5	3	4	3	3	4	3	2	3	3	3	2	38
" 1886	1	...	7	5	5	7	6	...	4	4	2	1	43
" 1885	6	6	4	8	4	3	5	3	3	5	3	3	53
" 1884	...	6	5	8	8	10	6	5	5	6	9	5	73

TABLE 8.—DEATHS FROM SEVERAL CAUSES AT SIX GROUPS OF AGES,
FOR THE YEAR ENDED DECEMBER 31ST, 1900.

	All Ages.	Under 5 years.		5-15.	15-25.	25-60.	60 and upwards.
		0-1.	1-5.				
Small-pox	...	17	27	5	...	...	...
Measles	...	49	7	7	...	...	...
Scarlet Fever	...	17	9	1	1	...	...
Diphtheria	...	12	5	1	...	...	...
Whooping Cough	...	8	...	1	...	...	...
Typhus	...	1	...	...	...	1	...
Enteric Fever	...	20	...	2	8	9	1
Simple and undefined Fever
Diarrhoea, Dysentry	...	19	4	...	...	5	2
Simple Cholera
Venereal Affections
Erysipelas	...	1	...	...	...	...	1
Pyæmia, Septicæmia	...	5	1	...	...	3	...
Puerperal Fever	...	3	...	...	1	2	...
Parasitic Diseases—Thrush
Dietetic Diseases—Starvation	...	1	...	...	...	...	...
Dietetic Diseases—Alcoholism, Del. Trem.	...	4	...	...	...	3	1
Rheumatic Fever—Rheumatism of Heart	...	2	...	...	...	2	...
Rheumatism—Rheumatoid Arthritis	...	16	1	...	1	7	7
Rickets	...	1	...	...	...	...	...
Cancer, Sarcoma	...	70	...	...	...	41	29
Tabes Mesenterica, Marasmus	...	57	8	1	...	1	17
Tubercular Meningitis	...	37	19	6	1	3	...
Phthisis	...	152	5	5	29	103	6
Scrofula, Tuberculosis	...	18	...	5	4	7	1
Other Constitutional Diseases	...	26	1	...	4	11	7
Premature Birth, Inanition	...	51	...	...	...	...	...
Concealed Malformation

[illegible]

TABLE 9.—SHOWING THE NUMBER OF ZYMOTIC DISEASES NOTIFIED BY MEDICAL PRACTITIONERS IN EACH WARD OF THE BOROUGH, FOR THE YEAR ENDING DEC. 31ST, 1900 AND THE RATE PER CENT. OF POPULATION AND THE COMPARISON WITH THE NINE PREVIOUS YEARS.

	Small-pox.	Cholera.	Typhus Fever.	Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Relapsed Fever.	Diphtheria.	Erysipelas.	Total.	Rate per centage of Population.
OVENDEN ...	...	...	...	4	40	...	...	...	1	...	45	0·62
AKROYDON .	...	...	...	1	26	...	...	...	5	...	32	0·44
NORTH ..	...	...	...	8	20	...	1	...	3	...	32	0·39
CENTRAL ...	...	...	..	8	25	1	...	...	5	...	39	0·43
WEST ...	...	...	...	7	47	..	...	...	2	...	56	0·57
SOUTH ...	...	..	.	3	22	...	...	...	2	...	27	0·30
EAST ...	...	...	...	5	15	...	1	...	...	...	21	0·24
SOUTHOWRAM	...	...	..	18	56	...	...	...	1	...	75	0·98
SKIRCOAT ...	2	...	...	6	17	...	..	...	8	...	33	0·40
PELLON ...	...	...	5	9	26	..	1	3	8	1	53	0·64
KINGSTON ...	...	...	..	5	22	...	...	...	6	...	33	0·36
ILLINGWORTH	...	...	...	3	10	...	...	...	...	...	13	0·17
COPLEY ...	...	...	...	2	4	..	1	...	...	...	7	0·27
Total 1900	2	...	5	79	330	1	4	3	41	1	466	0·46
„ 1899	...	...	...	92	762	2	3	...	58	...	917	0·93
„ 1898	...	..	...	79	626	1	9	...	23	...	738	0·76
„ 1897	..	...	...	78	476	1	8	...	67	...	630	0·66
„ 1896	...	...	...	105	44	2	4	..	37	..	192	0·20
„ 1895	...	...	...	58	52	3	4	...	29	...	146	0·15
„ 1894	16	...	...	52	114	3	6	...	43	...	234	
„ 1893	346	5	...	69	150	5	6	...	57	...	638	
„ 1892	159	...	1	56	256	9	4	2	71	...	558	
„ 1891	...	1	..	99	429	14	5	2	23	..	573	

PUBLIC INSTITUTIONS.

ROYAL INFIRMARY	...	...	...	1	4	...	...	...	4	...	...
WORKHOUSE	...	...	...	...	5	...	...	...	...	1	...	

TABLE 10.—SHOWING RATES OF MORTALITY OF CHILDREN UNDER ONE YEAR OF AGE FROM CHIEF INFANTILE DISEASES PER THOUSAND BIRTHS, AND RATE PER CENT. OF TOTAL DEATHS.

DISEASES.	Total Deaths.		Rate per 1000 Births.		Rate per cent. of total Deaths at all ages.	
	1900	1899	1900	1899	1900	1899
From all causes ...	314	363	135·5	162·1	17·1	20·4
Lung Diseases ...	65	71	28·0	31·7	3·5	4·0
Marasmus, Wasting Diseases ...	30	36	12·9	16·0	1·6	2·0
Premature Birth, Inanition ..	51	75	22·0	33·4	2·7	4·2
Diarrhœa ...	8	47	3·4	20·9	0·4	2·6
Whooping Cough ...	2	22	0·8	9·8	0·1	1·2
Convulsions ...	53	49	22·4	21·8	2·8	2·7
Scrofula, Tuberculosis ..	1	1	0·4	0·4	·05	·05
Dentition ...	12	11	5·0	4·9	0·6	0·6

TABLE 11.—DEATHS OCCURING WITHIN THE BOROUGH
AMONG PERSONS NOT BELONGING THERETO.

The following are included in the Infirmary :—					
SOWERBY BRIDGE	..	...	...	...	8
GREETLAND	...	...	.	..	2
ELLAND	...	...	...	..	3
MYTHOLMROYD	...	...	...	...	2
HEBDEN BRIDGE	.	...	...	...	1
WARLEY	...	...	...	...	2
QUEENSBURY	...	...	...	...	1
BRIGHOUSE	...	...	...	...	4
RIPPONDEN	...	...	..	...	3
SOWERBY	...	...	...	...	1
RISHWORTH	...	...	...	...	2
SOYLAND	...	...	...	...	1
NORLAND	..	...	...	...	1
NORTHOWRAM	...	...	...	...	1
HIPPERHOLME	...	...	...	...	1
TODMORDEN	..	...	...	...	1
ROTHERHAM	...	...	...	...	1
TOTAL					35
The following are included in the Boro' Fever Hospital :—					
ELLAND	..	...	...	...	1
QUEENSBURY	...	...	...	...	1
HULL	...	...	..	...	1
TOTAL					3
The following are included in the Workhouse :—					
SOWERBY BRIDGE	...	...	...	...	1
GLASGOW	...	...	...	...	1
SHELF	...	...	.	...	1
TOTAL					3
The following are included in South Ward, having died in the Home for Incurables, West Grove :—					
NORLAND	...	...	...	...	1

For the correction of Local Death Rates a list of 19 deaths has been forwarded to me, from the West Riding Asylums, of persons who have died in these Institutions belonging to our Borough. On per contra we have 42 deaths of persons who died in the Borough who did not belong to it. (See list above.)

TABLE 12.—SHOWING DEATH-RATES PER THOUSAND OF THE POPULATION IN EACH
QUARTER FROM THE FOLLOWING DISEASES.

	Zymotic Diseases.		Consumption.		Lung Diseases, including Consumption.		From all causes.	
	1900	1899	1900	1899	1900	1899	1900	1899
1st Quarter	1.8	1.3	1.9	2.0	8.0	7.9	23.5	21.5
2nd "	1.1	0.8	1.8	1.5	5.9	4.9	20.0	17.6
3rd "	0.9	2.8	1.1	1.0	2.8	3.2	13.2	16.9
4th "	1.0	1.1	1.2	1.4	3.9	4.6	15.6	16.4
Whole Year	1.2	1.5	1.5	1.5	5.1	5.1	18.1	18.1

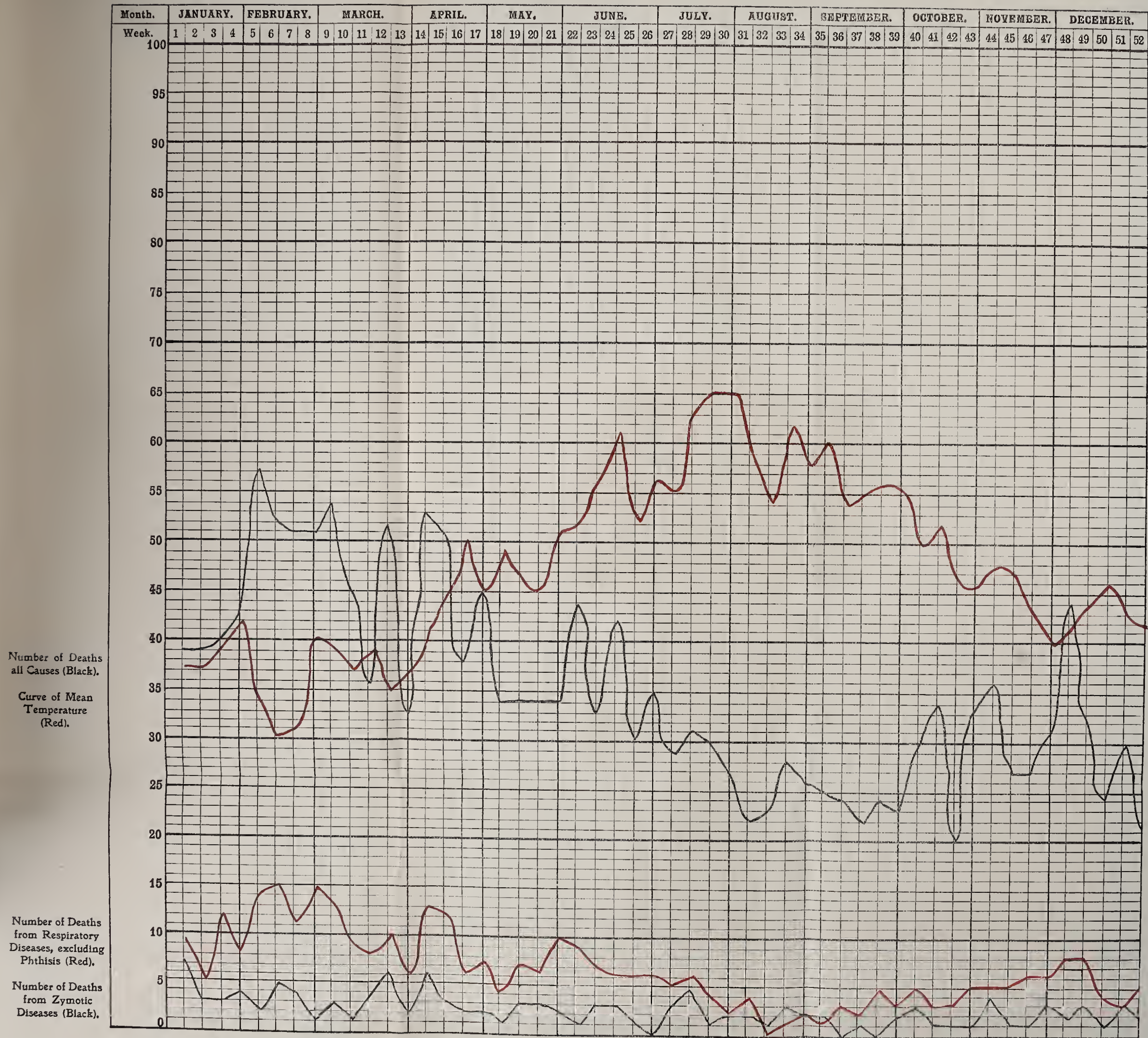


TABLE SHOWING NUMBER OF CASES OF ZYMOTIC DISEASE IN EACH LOCALITY OF THE BOROUGH, NOTIFIED DURING THE YEAR, AND CLASSIFIED ACCORDING TO AGE; ALSO THE NUMBER OF CASES REMOVED FROM EACH LOCALITY TO THE BOROUGH FEVER HOSPITAL.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							TOTAL CASES NOTIFIED IN EACH LOCALITY.													NUMBER OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.														
	At all Ages.	At Ages—Years.						Ovenden Ward.	Akroydon Ward.	North Ward.	Central Ward.	West Ward.	South Ward.	East Ward.	Southowram Ward (H).	Skircoat Ward.	Pellon Ward.	Kingston Ward.	Illingworth Ward.	Copley Ward.	Ovenden Ward.	Akroydon Ward.	North Ward.	Central Ward.	West Ward.	South Ward.	East Ward.	Southowram Ward (H).	Skircoat Ward.	Pellon Ward.	Kingston Ward.	Illingworth Ward.	Copley Ward.	Out of Borough.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.																												
Small-pox	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	..	2	...	...	...	...	...	1
Cholera		
Diphtheria	...	41	...	12	22	2	5	...	1	5	3	5	2	2	...	1	8	8	6	...	...	1	1	...	...	1	...	...	1	...	...	...	...	...
Membranous Croup		
Erysipelas	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	330	1	53	244	25	7	...	40	26	20	25	47	22	15	56	17	26	22	10	4	26	27	16	20	36	9	8	45	11	22	19	8	1	4
Typhus Fever	...	5	...	...	1	2	2	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...	...	...
Enteric Fever	...	79	...	3	19	23	34	...	4	1	8	8	7	3	5	18	6	9	5	3	2	2	2	3	5	4	1	3	9	3	4	1	5
Relapsing Fever	...	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Continued Fever	...	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
Puerperal Fever	...	4	...	...	...	1	3	...	...	...	1	...	...	...	1	...	...	1	...	...	1	...	...	...	...	..	...	..	...	...	...	...	...	...
Plague	
TOTALS	...	466	1	68	289	53	55	...	45	32	32	39	56	27	21	75	33	53	33	13	7	29	30	19	25	41	10	11	54	17	31	20	8	1	10

County Borough of Halifax.

THE

Sanitary Inspector's Report

FOR THE

Year ended 31st December, 1900.

*To the Chairman and Members of the Health
Committee.*

GENTLEMEN,

I have the pleasure to submit for your consideration my Twenty-sixth Annual Report on the operations of the Health Department for the year ended December 31st, 1900.

TOWN HALL, HALIFAX,

June, 1901.

HEALTH DEPARTMENT.

Summary of Work done.

Total number of Visits made by the District Inspectors ...	27620
Total number of Visits to Houses	7794
Number of Visits to Houses with reference to Defective Drainage	3472
Number of Visits to Houses with reference to Cleanliness, Overcrowding, &c.	1145
Number of Visits to Houses with reference to Infectious Diseases	1864
Rooms Disinfected	1256
Cases removed to the Hospital	306
Infectious Diseases reported	466
Nuisances reported	2586
Nuisances abated	2492
Notices served	1488
Letters served (referring to Nuisances, &c.)...	154
Summonses taken out	6
Smoke Observations taken	806
Old Ashpits abolished	1
Old Ashpits altered to Goux System	80
Goux Closets registered	587

It must be remembered that many nuisances are frequently included under one notice, and therefore the number of nuisances represent considerably more than the number of notices.

Removal of Nuisances.

At the commencement of the year 205 complaints remained on the books and in course of removal, since then 2586 have been registered and 2492 removed, leaving at the close of the year 299 to be dealt with. The following Table shows the nature of nuisances registered.

Nature of Nuisances.				Number Registered.
Defective Sink Drains	...	...	...	83
„ „ Pipes	..	...	...	80
„ „ Syphon Traps	...	...	...	117
„ Basement Drains	...	...	...	28
„ Yard Drains	...	...	...	36
„ Urinal Drains	...	...	...	3
„ W.C. Drains	...	...	...	21
„ Area Drains	...	...	...	19
„ Private Street Drains	...	...	...	13
Made-up Sink Pipes	...	...	...	44
„ Bath Pipes	...	...	...	7
„ Lavatory Pipes	...	...	...	3
„ Basement Drains	...	...	...	39
„ Water Closets	...	...	...	34
„ Yard Drains	...	...	...	48
„ Urinal Drains	...	...	..	23
„ Gullies ...	...	..	..	61
„ Private Street Drains	...	...	..	15
Untrapped Basement Drains	...	...	...	10
„ Sink Drains	...	..	...	31

NUISANCES—*Continued.*

Nature of Nuisances.				Number Registered.
Untrapped Area Drains	..	...	..	16
„ Yard Drains	...	...	...	14
„ Urinal Drains	...	...	...	8
„ Bath Pipes	...	...	...	9
„ Lavatory Pipes	...	...	...	3
Drains not efficiently Trapped :—				
Sink Drains ...	...	..	..	7
Cellar Drains	...	...	..	2
Area Drains ...	...	...	...	4
Yard Drains ...	...	...	...	14
Urinal Drains	...	...	...	2
Sink Drains requiring Disconnecting	...	...	...	63
Defective Fall-pipe Drains	...	.	..	38
„ Fall-pipes ..	...	...	...	119
„ Spouting ...	...	...	...	132
„ Roofing ...	...	..	.	35
Broken Pot and Iron Traps	..	...	...	10
Insufficient Supply of Water to Closets	...			1
Nuisances from Water in Cellar...	..		...	22
„ Want of Drains ...	...	...	...	13
„ Smoke	...	...	..	9
„ Poultry	...	..	..	4
„ Pigeons	..	...	..	6

NUISANCES—*Continued.*

Nature of Nuisances.	Number Registered.
Nuisances from Rabbits	3
,, Swine	4
Houses Overcrowded	31
,, unfit for Habitation	4
,, requiring Limewashing	113
Accumulations of Offensive Matter	78
Privies requiring Limewashing	314
Insufficient Privy Accommodation	52
Offensive Ashpits and Privies	107
,, Goux Closets	162
,, Ash Tubs	16
Doors off Closets	50
,, Ashes Tub Places	47
Dilapidated Closets	81
Ashpits requiring Re-construction	88
COWSHEDS.	
Defective Drains	9
Want of Light, Room, Air Space, and Ventilation	41
Dilapidated Cowsheds and Floors	7
Cesspools requiring Emptying and Defective	13
Offensive Middensteads	11
Cowsheds requiring Limewashing	94

NUISANCES—*Continued.*

Nature of Nuisances.				Number Registered.
FACTORIES AND WORKSHOPS.				
Rooms requiring Limewashing	...	...	...	30
Rooms Overcrowded	...	...	...	1
Insufficient Privy Accommodation	..	...	...	3
BAKEHOUSES.				
Open Drains in Bakehouses	...	...	...	7
New Drain Laid	...	...	..	1
Drains Disconnected	...	...	.	2
Want of Light	...	...	...	1
TOTAL				2586

The above list does not include work carried out after mere verbal notice.

Night Scavenging.

The following Table shows the number of Ashpits cleansed during the year, and the number of loads of manure and rubbish collected.

Month.		Number of Ashpits. Emptied.	Loads of Soil.	Loads of Rubbish.	Total Number of Loads.
January	...	418	94	229	323
February	...	141	52	71	123
March	...	379	142	185	327
April	...	515	130	224	354
May	...	303	119	149	268
June	...	141	70	59	129
July	...	393	145	155	300
August	...	295	60	143	203
September	..	241	79	110	189
October	...	613	122	236	358
November	...	425	108	192	300
December	...	346	120	221	341
TOTAL	...	4210	1241	1974	3215

The total number of Ashpits cleansed during the year is 4210, as against 3782 in the previous year. 80 Ashpits with Privies have been altered to the Goux System, 2 abolished, and Ashes Tubs supplied in the place of 49 Dry Ashpits. The above includes Ovenden, Illingworth and Copley Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN
THE BOROUGH, DECEMBER 31st, 1900.

District.	Wards.	Ashpits with Privies.	Dry Ashpits.
1	Akroydon and North	59	58
2	Ovenden and Illingworth	384	30
3	Central and East	43	98
4	West and South	23	205
5	Skircoat and Southowram	53	47
6	Pellon and Kingston	8	38
7	Copley and Warley	408	25
8	Northowram	185	...
	TOTAL	1163	501

Goux Scavenging.

The following Table shows the number of Closet Tubs and Loads of Ashes collected during the year.

Month.			Number of Closet Tubs Collected.	Loads of Ashes Collected.
January	...	...	51378	2037
February	...	...	42419	1453
March	...	...	48754	1945
April	...	...	46265	1553
May	...	...	51794	1829
June	...	...	48754	1453
July	...	...	50155	1298
August	...	...	52573	1413
September	...	...	47113	1318
October	...	...	51957	1538
November	...	...	49971	1680
December	...	...	48274	1645
TOTAL ...			589407	19162

The above represents 28067 loads of Night Soil (each load containing 21 Closet Tubs), as against 27327 and 19162 and 18566 loads of Ashes respectively for the preceding year.

The number of additional Closets registered is 687, being an increase of 136 on the number registered during the year 1899.

Goux Scavenging.

The following Table shows the number of Goux Closet Tubs registered since the commencement of the Goux System.

Year.			Number of Closet Tubs.	Number Registered during each year.
1871	...	...	1109	1109 in 15 months
1872	...	...	1895	786
1873	...	...	2440	545
1874	...	...	2820	380
1875	...	...	3088	268
1876	...	...	3316	228
1877	...	...	3769	453
1878	...	...	4277	508
1879	...	...	4858	576
1880	...	...	5071	218
1881	...	...	5552	481
1882	...	...	6057	505
1883	...	...	6506	449
1884	...	...	7405	899
1885	...	...	8049	644
1886	...	...	8727	678
1887	...	...	9327	600
1888	...	...	9831	504
1889	...	...	10446	615
1890	...	...	11098	652
1891	...	...	11644	546
1892	...	...	12068	419
1893	...	...	13047	984
1894	...	...	13450	403
1895	...	...	13797	347
1896	...	...	14145	348
1897	...	...	14444	299
1898	} 143 Tubs returned in connection with Property pulled down.	...	14881	437
1899		...	15287	551
1900		...	15974	687

During the year 509 Closets have been erected in connection with new property, and 164 have been altered from the old system, 3 substituted for Water Closets, and 11 added where the accommodation was previously insufficient.

Birks Hall Tips.

Table showing the number of loads of Ashes and Rubbish tipped during the year.

Names.				Number of Loads.
Goux Department	...	...	...	15766
Private Firms	...	..	...	1144
TOTAL	..	...	...	16910

Mozley Tip.

Table showing the number of loads of Rubbish tipped during the year.

Name.				Number of Loads.
Goux Department	...	...	...	1489

Streets Scavenging.

Table showing number of Streets and Miles requiring Sweeping in each Ward

Wards.				Number of Streets.	Number of Lineal Miles of Setting.	
					Miles.	Yards.
East	...	...	...	89	7	114
Central	...	..	...	41	4	522
South	...	...	...	51	6	1015
West	...	...	...	39	5	848
North	...	...	...	33	4	1109
Northowram	...	..	...	24	3	1468
Southowram	...	...	...	37	6	1406
Skircoat	...	...	...	25	3	452
Kingston	...	...	...	11	2	270
Pellon	...	...	...	18	3	601
Ovenden and Illingworth	...	...	...	29	10	265
TOTAL ...				397	57	1030

Streets Scavenging.

Table showing number of Lineal Yards and Miles Swept during the year in each Ward.

Wards.			Number of Lineal Yards Swept.	Miles.	Yards.
East	...	...	2,474,850	1406	290
Central	...	...	980,450	557	130
South	...	...	1,168,738	664	98
West	...	...	737,746	419	306
North	...	...	574,125	326	365
Northowram	...	...	318,725	181	165
Southowram	..	...	601,550	341	1390
Skircoat	...	...	203,396	115	996
Kingston	...	...	101,712	57	1392
Pellon	...	...	272,035	154	995
Ovenden and Illingworth Part Swept by Halifax Gang	}		892,436	507	116
TOTAL	...	...	8,325,763	4730	963

Streets Scavenging.

The subjoined Table gives at a glance the work done in this Department.

	1900.
Number of Streets Swept	31,402
Lineal Yards Swept	8,325,763
Number of Streets Watered	11,519
Loads of Water used for that purpose ...	14,831
Loads of Sweepings gathered	6,119
Loads of Snow removed from the Streets ...	12,677
Number of Gullies emptied	181,384
Number of Street Drains flushed	98

During the year 312 loads of garbage have been removed from fishmongers, fried fish shops, and greengrocers.

THE FOLLOWING TABLE SHOWS THE AMOUNT OF WORK DONE IN THIS DEPARTMENT FROM
1886 TO 1900.

	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Number of Streets Swept ...	20621	24234	25901	27149	28244	28869	27019	30700	29800	26921	32204	30569	31960	30997	31402
Number of Streets Watered ...	3592	3858	4157	8620	5337	5404	8016	7822	5382	10055	9762	10045	10637	13036	11519
Loads of Water used ...	4798	5430	6255	12442	6877	6598	8057	8648	5969	10965	11850	11824	12435	15002	14831
Loads of Sweepings gathered ...	4471	4855	4609	4574	6882	5102	4833	6571	5184	4926	5364	6522	6979	6153	6119
Number of Gallies emptied ...	68094	74512	76661	89852	100103	122611	120004	144019	153411	133784	175903	176664	196044	195316	181384
Loads of Snow re-moved from the Streets ...	29200	2843	8031	972	884	291	14564	8844	1215	14331	41	9081	806	3417	12679
Drains flushed ...	302	943	789	306	523	1278	1822	2211	1006	709	592	684	1177	810	98

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH
OF HALIFAX DURING THE YEAR 1900.

	Number of Loads.		
From Wet and Dry Ashpits			3,215
From Ashes 'Tubs			19,162
From Goux Closet 'Tubs			28,067
Sweepings gathered from the Streets, and Refuse from Gullies			7,111
Garbage removed from Market Hall			853
Horse Droppings from Streets			260
Garbage from Fried Fish Shops			312
Total Number of Loads			58,980

Smoke Observations.

The following Table shows the number of Smoke Observations taken during the year, and the average number of minutes of dense smoke emitted.

	Number of Observations taken.	Average Number of minutes of Dense Smoke emitted.
Number of Observations taken ...	806	
Number showing moderate Smoke or <i>nil</i>	} 252	
Number of Observations taken for a period of 60 minutes, each show- ing Dense Smoke	} 554	
Average number of minutes of Dense Smoke emitted from Chimneys...	} ...	3·11

Smoke Observations.

The following Table shows the number of observations taken, names of firms, and number of boilers working.

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Akroyd & Ambler ...	New Brunswick Street	1	6	2·0
Akroyd J. & Sons, Ltd.	Bowling Dyke ..	3	4	1·5
Akroyd W. ...	Lucy Street ...	1	5	nil
Akroyd J. & Son ...	Haley Hill ...	...	4	1·5
„ Ltd. ...	Copley Mills ...	...	1	nil
Baldwin J. & J. ...	Clark Bridge Mills ...	5	9	4·1
Barraclough J. & Sons	Boy's Mill, brick chimney	2	5	5·2
„	Boy's Mill, stone chimney	1	4	nil
Balme & Pritchard ...	Lister Lane, stone chimney	2	3	1·6
„ ...	Lister Lane, brick chimney	2	2	2·5
Baldwin & Walker ...	West Croft Mill ...	2	5	1·0
Bowman Bros. ...	Pellon Lane ...	6	2	4·0
Butler James ...	Adelaide Street ...	1	6	1·6
Berry John ...	New Bank ...	1	4	nil
Booth J. & Son ...	Lee Bridge ...	6	4	nil
Bowman J. M. ...	Lee Bank ...	2	6	0·1
Bradford and District Dyeing Co.	1, Lee Bank ...	4	7	0·1
„	2, Lee Bank ...	6	7	0·8
„	1, Old Lane ..	4	7	1·5

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Bancroft Alfred ...	Lister Street ...	1	1	nil
Bancroft W. ...	Fenton Estate ...	2	8	7·3
Binns E. & Son ...	West Parade ...	2	4	3·5
Booth & Co. ...	Arundel Street ...	1	4	2·0
Butler J. & Co. ...	Adelaide Street, new chimney	1	4	1·2
Bennett Bros. ...	Aked's Road ...	1	2	0·5
Calder & Hebble Co. ..	Engine House Lane ..	1	5	2·4
Clayton & Murgatroyd	Lower Wade Street ...	4	12	8·0
Crabtree Exors. ...	Well Lane ...	2	6	nil
Crossley & Porter Orphanage	Skircoat Moor ...	1	2	nil
Calvert R. ...	Green Mount Iron Works	1	1	nil
Carter J. & Co. ..	Parkinson Lane ...	1	6	1·5
Charnock J. & Sons ...	Pellon Lane ...	1	2	1·5
Charnock Edgar ...	Charlestown Road ...	1	3	0·3
Crossland J. & Sons ...	North Bedford Street	1	2	nil
Charlestown Brick and Tile Co.	Charlestown Road ...	1	3	1·6
Crossley J. & Sons, Ltd.	Dean Clough ...	4	1	1·0
„	Old Lane Chimney ...	5	4	nil
„	Office Chimney ...	8	3	8·0
„	Lee Bridge, stone chimney	6	6	1·8
„	Lee Bridge, brick chimney	6	5	1·6
„	Albion Mills ...	3	4	nil

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Calvert W. & Sons ...	Illingworth Mills ...	2	6	3·6
Crossley J. & Son ...	Dyehouse Chimney,	...	1	5·0
Crabtree F. ..	Cotton Mill, Salter-hebble	3	11	4·6
Crown Hardware Co....	Corporation Street ..	1	6	1·1
Carter & Wright ...	South Darley Street ...	1	3	1·6
Clayton & Murgatroyd	Holme Mill ..	1	1	nil
Drake J. & Co. ...	Foundry Street ...	1	7	1·4
Dyson J. & Sons ...	Haugh Shaw ...	1	7	2·0
Earnshaw A. ..	Grantham Road ..	1	6	0·5
Earnshaw L. J. ..	Well Lane ...	1	1	nil
Eastwood A. ...	Craven Edge Mill ...	1	5	3·4
Edwards & Sutcliffe ..	Canal Mills, Copley ...	...	2	nil
Farrar J. B. ...	Lower Wade Street ...	2	5	3·2
„	Well Lane .	1	8	3·2
Foster E. & Sons ...	Woolshops ...	1	1	2·0
Farnell E. & Son ...	Gibbet Street ...	1	2	1·0
Fletcher Bros. ...	Raglan Street, stone chimney	4	5	5·0
„	Raglan Street, brick chimney	1	1	1·0
„	Raglan Street, new chimney	1	5	4·4
Fletcher Harold ...	Bowling Dyke ..	2	5	1·8

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Forest Mill Co. ..	Ovenden ..	1	7	4·0
Fleming, Birkby and Goodall	Hopwood Lane ...	1	4	1·2
Fleming A. ...	Premier Works, Grant-ham Road	1	6	0·1
Green J. ...	Corporation Street ...	1	5	nil
Greenwood J. ...	Cross Hills ...	1	6	0·8
Hanson W. ...	Range Royd Mill ...	3	5	0·4
Halifax Corporation Baths	Woodside, Haley Hill	1	3	0·3
Halifax Flour Society	Bailey Hall ...	2	12	3·1
Halifax Workhouse ...	Gibbet Street ...	2	3	3·9
Halifax Industrial Society	Northgate ...	1	2	1·0
Halifax Corporation ...	Albert Road ...	1	2	0·5
„ „	Charlestown Chimney	1	3	nil
„ „	Electric Light Works	3	18	5·8
„ Infirmary ...	Free School Lane ...	1	5	nil
Halifax and District ...	Hall Street ...	1	3	8·6
Mineral Water Co.				
Haley H. ...	Stannary Street ...	1	2	nil
Haigh Allan & Co. ..	Winding Road ...	1	5	1·6
Harrison & Singleton	Horton Street ...	1	10	1·0
Holdsworth J. & Co....	Shaw Lodge Mills ...	10	12	2·2
Hoyle E. & Son, Ltd...	Waterside, 1 chimney	2	3	nil
„ ...	„ 2 chimney	2	1	1·0
Highfield Leyland ...	Croft Mill, Gaol Lane	3	4	2·2

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Hartley & Sugden ...	Gibbet Street ...	1	4	4·2
Hitchen J. ...	Iron Works, Hall Street	1	1	nil
Hoyle Richard ...	Queen's Road Mill ...	2	5	1·4
Howarth G. ..	Cabinet Works, Pellon Lane	1	3	0·6
Howson J. M. & Co....	Albert Street .	2	1	3 0
Hebden H. C. ...	Winding Road ...	1	3	nil
Hanson & Keighley ...	Adelaide Mills ...	1	6	2·8
Hollinrake & Clegg ...	Hall Street, old chimney	5	3	3·0
„ ...	„ new „	5	3	3·6
Hirst & Sons ...	Weymouth Street ...	1	2	nil
Horsfall Eli ...	Commercial Road ...	1	2	nil
Hoyle J. T. ...	Range Bank ...	4	2	0·5
Hanson W. ...	Jumples Mill, Mixenden	2	4	2·2
Hegginbottom W. ...	Hayes Mill, Mixenden	2	6	2·6
Horsfall & Co. ...	Pellon Lane ..	1	3	3·6
Inman Brothers ...	Union Street South ...	1	7	nil
Knight J. ...	Pellon Lane ...	1	4	1·0
Law S. & Sons ...	Square Road ...	1	2	nil
Lee & Sons ...	Timber Street ...	1	2	nil
Lee Bros. ...	King Cross	1	3	nil
Lumby, Son & Wood...	New Bond Street ..	1	3	1·3
Morton J. ...	Siddal ...	1	4	1·2

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Morton J. ...	Siddal Lane ...	1	3	nil
Martin ...	Falcon Laundry, Salter-hebble	1	8	0·6
Maude & Turner ...	Gibbet Street ...	1	3	1·0
McNaught Thos. ...	Hare Street ...	1	5	1·8
Milner & Co. ...	Raglan Street ...	1	2	1·0
Martin & Sons ..	Pellon Lane ...	3	3	1·0
McCrea H. C. & Co. ...	Horley Green Road ...	1	4	nil
Moore Z. ...	Shaw Mill, Mixenden	1	6	3·3
Mitchell Bros. ..	Pellon Lane ...	2	3	2·0
Mackintosh & Co. ...	Queen's Road ...	1	3	1·6
Moore & Sons, Ltd. ..	Savile Park ...	1	1	nil
Northern Engineering Co.	Parkinson Lane ...	1	5	3·0
North A. ...	Old Lane ...	1	5	nil
Ordish J. ...	Waterside ...	1	3	0·3
Oates J. E. ...	Hanson Lane, stone chimney	1	5	3·2
„	Hanson Lane, brick chimney	1	4	4·0
Oates & Green, Ltd. ...	Horley Green Road ...	1	4	1·2
„	Beacon Road ...	1	7	2·7
„	Ellen Royd ...	1	4	1·7
Parker Thos. & Co. ...	Pellon Lane ...	1	4	1·5
Pohlmann & Sons ...	Hall Street ..	1	5	1·4
Parker & Co. ..	Horley Green Road ...	1	4	nil

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Priestley J. ...	Ovenden Road ...	1	6	2·6
Pickles W. ...	Steam Laundry ...	1	3	2·3
Pickles Messrs. & Sons	Victoria Mills ...	2	4	nil
Ramsden Thos. & Son	Trinity Road ...	1	10	3·8
Robinson E. ...	Battinson Road ...	3	4	2·2
Robinson Jesse ...	New Bond Street ...	2	3	2·6
Robinson John ...	Prospect Mill, Ovenden	1	6	0·3
Redman C. ...	Top of Parkinson Lane	1	6	1·8
Sagar J. & Co. ..	Water Lane ...	1	9	2·5
Smeeton J. ...	Stoney Royd ...	3	7	0·4
Smith Thos. ...	Cinderhills ...	1	3	nil
Smith D. & Co., Ltd...	Siddal ...	1	7	2·0
Smith F. G. ...	South Parade ...	1	5	1·6
Standard Screw Co. ...	Dispensary Walk ...	1	8	1·5
Swan Bank Brick and Tile Co.	Swan Bank ...	1	9	0·8
Sykes, Miles & Son ...	King Cross ..	1	3	nil
Scott Brothers ...	Johnson Street ...	1	5	0·8
Smith & Willshaw ...	Parkinson Lane Top...	1	1	2·0
Smithson J. ...	Lister Lane ..	2	3	4·0
Stott Brothers ...	Mount Street ...	1	2	2·5
Soothill B. ...	North Castle Street ...	1	2	0·5
Standeven & Earnshaw	Ladyship ...	3	5	0·6

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Speak Paul ...	Mixenden ...	1	6	1·0
Smith B. G. ..	Stannary Street ...	1	2	2·0
Smithson J. ...	Horton Street ..	1	5	1·4
Simpson & Son, Ltd.	Heath Road ..	2	3	nil
Stead Bros. ...	Hare Street ...	1	5	0·4
Stott & Ingham ...	Battinson Road Mill .	1	2	8·5
Tillotson Bros. ...	Sedburgh Road ...	2	9	3·0
Taylor J. ..	Archer Street ...	1	4	0·7
Taylor & Hanson ...	North Bridge ...	2	5	0·6
Tetley T. S. ...	Bradshaw ...	2	3	2·3
Todd J. & Sons ...	Shay Lane, Ovenden...	1	7	5·0
Turner Edwin ...	Dapper Mill, Wheatley	3	3	3·6
Turner John ...	Bedford Street ...	1	1	nil
Willey, Pearson & Co.	Haugh Shaw Road ...	6	12	4·7
Ward J. W. & Son ..	Walnut Street ...	5	7	2·0
Wade Josiah ...	Hopwood Lane ...	1	3	0·6
Whitley S. & Co. ...	Hanson Lane ...	5	4	2·2
Whiteley J. & Sons ...	West Parade ..	2	4	0·2
Walsh, Brierley and Eastburn	Pellon Lane ...	1	4	1·2
Whitaker R. & Sons ...	Corporation Street ...	2	5	0·6
Wood George ..	Pellon Lane .	1	4	1·7
Webster S. ..	Ovenden Wood ...	1	4	2·2

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Wainwright E. M. ...	Winding Road ...	2	13	6·4
Wavell E. M. & Son ...	Upper Clay Pits ...	1	1	4·0
Ward R. D. & Sons ...	Washer Lane ..	2	4	4·0
Woodcock & Co. ...	Copley ...	1	2	nil
West Riding Ice Co....	Thomas Street ..	1	11	1·2
Wadsworth & Son ...	„	1	9	1·4

TABLE SHOWING NUMBER OF PREMISES REQUIRING
INSPECTION BY THE MEAT INSPECTOR,
J. K. CRAWSHAW.

Description of Premises.				Number.
Public Slaughterhouses	...	...	...	1
Private Slaughterhouses	...	...	...	7
Borough Market	...	...	...	1
Wholesale Market	...	...	...	1
Cattle Lairs	...	...	...	2
Potted Meat and Tripe Boiling Houses	...	...	...	50
Fried Fish Shops	...	...	...	90
Fat and Bone Boilers	...	...	...	2
Cowsheds	...	...	...	60
Milkshops	...	...	...	58
Wheat Bread and Confectioners	...	...	...	93
Oat Bread and Muffin Bakers...	...	...	...	8
TOTAL	...	...	...	373

TABLE SHOWING NUMBER OF VISITS MADE BY THE
MEAT INSPECTOR.

Description of Premises.				Number of Visits.
Public Slaughterhouses	...	...	...	631
Private Slaughterhouses	...	...	..	291
Borough Market ...	...	...	...	477
Wholesale Market ...	...	...	...	296
Fasting Sheds ...	..	...	...	277
Cattle Lairs ...	...	...	...	26
Potted Meat Houses	..	...	...	321
Tripe Boiling Houses	...	...	...	155
Butchers Shops ...	...	...	.	1187
Fried Fish Shops ...	...	...	..	212
Cowsheds ...	...	...	...	220
Dairies and Milkshops	...	...	...	124
Bakehouses ...	...	...	...	387
Other Visits ...	...	...	..	1039
TOTAL ...	...	...	...	5643

TABLE SHOWING MEAT, FISH, FRUIT, ETC., DESTROYED
AS UNFIT FOR HUMAN FOOD.

Kinds of Food Destroyed.					Quantity in lbs.
8	Carcases of Beef	...	...	...	4177
90	„ Pigs	...	...	...	6832
5	„ Mutton	...	...	...	360
11	„ Veal	...	...	...	582
67	Rabbits	...	...	...	113
1	Turkey	...	...	...	10
Fish	...	...	...	...	2432
Fruit	...	...	...	...	3072
Offals	...	...	...	...	4635
Other Foods	..	...	...	...	1469
TOTAL ...					23682

TABLE SHOWING NUMBER OF SEIZURES DURING THE
YEAR BY MAGISTRATES' ORDER AND WITH
CONSENT OF OWNERS.

Months.			Destroyed by Magistrates' Order.	Destroyed by consent of Owners.	Total.
January	...	...	...	11	11
February	...	...	1	6	7
March	...	...	2	14	16
April	...	...	1	13	14
May	...	..	1	20	21
June	...	...	3	11	14
July	...	...	1	18	19
August	...	...	...	16	16
September	..	...	2	22	24
October	...	...	2	15	17
November	...	...	...	12	12
December	...	...	...	10	10
TOTAL			13	168	181

TABLE SHOWING MEAT, FISH, FRUIT, ETC., DESTROYED
AS UNFIT FOR HUMAN FOOD,
FROM 1886 TO 1900.

Year.	Meat.	Fish.	Fruit.	Other Articles of Food.	Total.
	lbs.	lbs.	lbs.	lbs.	lbs.
1886	4527	769	196	180	5672
1887	2110	17	...	...	2127
1888	6955	3672	30	80	10737
1889	3651	1646	70	...	5367
1890	15494	3062	230	2250	21036
1891	4182	6240	40	230	10692
1892	6724	5697	910	63	13394
1893	6028	3512	1064	989	11593
1894	6112	29156	177	406	35851
1895	8466	18661	180	458	27765
1896	14420	9615	1083	847	25965
1897	11030	3840	100	382	15352
1898	9435	8760	90	564	18849
1899	8670	85	...	7605	16360
1900	16586	2432	3072	1592	23682

Cowsheds and Milkshops.

TABLE SHOWING NUMBER OF VISITS MADE TO
COWSHEDS AND MILKSHOPS.

Description of Premises.				Number on Register.	Number of Visits.
Cowsheds	...	...	...	60	220
Milkshops	...	...	...	58	124

DEFECTS IN COWSHEDS.

Nature of Defects.					Number of Defects.
Badly Ventilated Cowsheds	...	..	...		18
Cowsheds requiring Limewashing		...	...		12
Dirty Floors	...	...	...	...	8
Defective Drains	...	...	...	...	23
Want of Light	...	...	...	...	5
Insufficient Airspace		...	...	...	20
„ Water Supply	...	...	...	...	2
Accumulation of Manure	..	...	...	...	4
TOTAL					92

Bakehouses.

TABLE SHOWING THE NUMBER OF VISITS MADE TO
BAKEHOUSES DURING THE YEAR.

Description of Premises.	Number on Register.	Number of Visits made.
Wheat Bread and Muffin Bakers, including Confectioners	93	} 387
Oat Bread and Muffin Bakers	8	

TABLE SHOWING DEFECTS IN BAKEHOUSES.

Nature of Defects.				Number of Defects.
Defective Drains	...	...	...	41
Bakehouses requiring Limewashing		...	...	10
Dirty Floors	...	...	...	6
Closets in Bakehouses removed		...	.	2
Cellar Bakehouses closed	...	...	...	8
Bedroom opening into Bakehouse		...	...	1
Bad Ventilation	...	...	...	4
TOTAL	...	...	...	72

THE FOLLOWING TABLE SHOWS THE POPULATION AND
ACREAGE FOR EACH DISTRICT, WITH NAMES
AND ADDRESSES OF INSPECTORS.

District.	Population.	Area in Acres.	Names and Addresses of Inspectors.
A	26227	1997	J. Archbell, 7, Wellington Place.
B	34965	1211	J. W. Asquith, 10, Baker Street.
C	25834	2387	J. E. Firth, 7, Randolph Street.
D	18094	8039	J. Wood, 27, Shay Lane, Ovenden.
	105120	13634	

District A.

INSPECTOR JAMES ARCHBELL.

Nature of Defects.				Number of Defects.
Defective Sink Drains	...	...	...	106
„ Cellar Pipes	...	..	...	38
Made-up Cellar and Walled Drains		..	...	35
Defective Yard and Private Street Drains			...	51
„ Area Drains	...	...	...	18
Untrapped Sink Drains	...	...	...	8
Drains to Disconnect	...	...	...	37
Defective Water Closet Soil Pipes		...	...	20
Made-up Water Closets	...	...	...	21
Defective Water Closets	...	...	...	8
Untrapped Bath and Lavatory Waste Pipes			...	4
Bath and Lavatory Waste Pipes connected to Soil Pipes				2
Defective Roofing	...	...	...	28
„ Fall Pipes	...	...	...	32
„ Troughing	...	...	..	21
„ Urinals	...	...	...	12
Water in Cellars	...	..	...	43
Offensive Poultry	...	...	...	2
„ Pigeons	...	...	...	4
„ Swill Tubs	...	...	...	5
Houses Overcrowded	..	...	...	56

DISTRICT A—*Continued.*

Nature of Defects.	Number of Defects.
Offensive Accumulations	155
Ashpits requiring Re-construction	89
Notices served	364
Disused Closets	11
Closets and Ash 'Tub Places requiring Doors	28
Insufficient Privy Accommodation	59
Bad Smells	47
Nuisances from Workshop Chimneys	12
Drains 'Tested	54
Smoke Observations taken	302
Houses requiring Limewashing	145
Furnished Rooms requiring Limewashing ..	16
Closets requiring Limewashing ..	390
Visits to Lodging Houses	118
,, Houses where Fever Cases existed ...	772
,, Workshops	707
,, Factories	35
,, Furnished Rooms	372
Visits under the Shop Hours' Act ..	331
Houses Inspected... ..	2026
Rooms Disinfected	543
Fever Cases removed to the Borough Fever Hospital ...	75
Seats for Shop Assistants' Act, 1899	160

District B.

INSPECTOR JOSEPH W. ASQUITH.

Nature of Defects.				Number of Defects.
Defective Sink Drains	...	...	...	73
Insufficient Flush to W.C.	...	...	...	5
Defective Syphon Traps	..	...	...	102
Sink Pipes to Disconnect	...	...	...	26
Untrapped Sink and Lavatory Waste Pipes			...	38
Broken Pot and Iron Traps	...	...	...	9
Made-up Disconnecting Traps	...	...	..	18
Disconnecting Traps without Grates		...	...	14
Untrapped Cellar Drains	...	---	...	9
Bell Traps in Cellars	...	...	...	2
Made-up and Defective Cellar Drains	...		...	17
„ Area and Wash Kitchen Drains	...		...	12
Water in Cellar from Defective and Sub-Soil Drainage	...			19
Made-up Yard and Private Street Drains	...		...	14
Defective Stone Wall Drains	...	...	...	4
„ Pan Closets	...	...	...	10
Made-up W.C's. and Defective W.C. Drains			...	48
Defective W.C. Cisterns or Insufficient Flush to W. C.				5
„ and Made-up Troughing and Fall Pipes			...	57
„ „ Fall Pipes and Drains			...	46
Drains disconnected	...	...	...	44
Defective Roofing	...	...	...	4
Offensive Accumulations	...	...	...	46
„ Swine and Poultry	...	...	...	8
Dilapidated Closets and Ash Tub places	...		...	79
Doors off	„	„	„	25

DISTRICT B—*Continued.*

Nature of Defects.	Number of Defects.
Defective Urinals	5
Insufficient Ash Tub Accommodation	14
Ashpits to convert	12
Dirty Closets	44
,, Houses	38
Defective Flagging and Paving in Yards	8
,, Cellar and Bedroom Floors	9
Notices served	42
Nuisances from Smoke	11
Dirty Courts and Passages	5
Nuisances from Leaky Cistern Overflows	6
Made-up Street Gullies	20
Drains Tested	68
Smoke Observations	240
Houses Overcrowded	7
Visits to Workshops	550
,, Factories	30
,, Under Shop Hours	400
,, Fever Cases	494
,, Furnished Rooms	66
,, Vans used as Dwellings	56
Cases removed to the Borough Hospital	92
Rooms Disinfected... ..	345
No Abstract hung in Shops	26
Houses Inspected	1457

District C.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Defects.				Number of Defects.
Made-up and Leaky Sink Pipes	...	...	...	84
Defective Syphon Traps	...	...	...	37
„ Cellar Drains	...	...	...	25
Broken Soil Pipe	...	...	...	4
Made-up Cellar Drains	...	...	...	29
Defective and Made-up Water Closets	...	...	...	53
Old Pan Closets	...	...	...	2
Untrapped Bath and Lavatory Waste Pipes	...	...	...	3
„ Sink Drains	...	...	...	5
„ and Stone Walled Cellar Drains	...	...	...	29
„ Drains in Wash Kitchens	...	...	...	4
Defective Connections to Drain Pipes	...	...	...	44
Broken Fall Pipes	...	...	...	28
Made-up Fall Pipe Drains	...	...	...	44
„ Troughing	...	...	...	63
Defective Bell Traps in Cellars	...	...	...	17
„ Flagging in Cellars	...	...	...	36
Made-up Yard and Area Drains	...	...	...	44
Broken Pot and Iron Traps	...	...	...	22
Disconnecting Traps without Grates	...	...	...	3
Offensive and made-up Urinals	...	...	...	11
Insufficient Privy Accommodation	...	...	...	4
Bad Smells	...	...	...	23
Damp Walls from Defective Roofs and Sub-Soil Drainage	...	...	...	33
Defective Cisterns to Water Closets	...	...	...	9
Want of Urine Guides to Closet Seats	...	...	...	21
Drains Disconnected	...	...	...	25

DISTRICT C—*Continued.*

Nature of Defects.	Number of Defects.
Offensive Swine	2
,, Poultry, &c.	10
Water in Cellars from Defective Drainage and Burst Water Pipes	41
Houses Insufficiently Drained	5
,, Overcrowded	17
Dirty Houses	39
,, Closets	103
Doors off Closets and Ash Tub Places	58
Dilapidated ,, ,,	77
Offensive Accumulations and Middensteads	32
Nuisances from Smoke	5
Defective and Made-up Street Gullies	58
Rooms Disinfected	196
Drains Tested	55
Visits to Workshops	435
,, Factories	36
,, Shops under the Shop Hours Act	524
,, No Abstracts hung in Shops	23
,, Vans used as Dwellings	47
,, Furnished Rooms	34
,, Houses of Infectious Diseases	396
Houses Inspected	1880
Fever Cases removed to the Borough Hospital	72
Smoke Observations taken	200
Defective Closet Seats	9
Want of Roofs to Ash Tub Places	9

OVENDEN AND ILLINGWORTH.

District D.

INSPECTOR J. WOOD.

Nature of Defects.	Number of Defects.
Defective and Drawn-out Syphons	10
Untrapped, Leaking and Made-up Sink Pipes ...	21
Sink Pipes and House Drainage to Disconnect ...	35
Want of Sink Pipes and New Sinks ...	10
Water in Cellars from Leaking Drains, etc. .	28
Made-up Cellar and Area Drains	5
Untrapped Cellar Drains	4
Made-up Disconnecting Chamber	1
,, Water Closets	4
Old Pan Closet	1
Insufficient Flushing Cisterns	2
,, Ventilation to Soil Pipes and Drains ...	4
Waste Pipes connected to Soil Pipes	3
Defective Connections and Made-up Soil Pipes ...	3
Want of proper Drainage	16
Old Wall Drains, and Defective Drain Connections ...	37
Untrapped Yard Drains	39
Made-up Yard and Street Gullies and Drains ..	73
Defective Gully Traps, Broken Grates, and Old Bell Traps	13

DISTRICT D—*Continued.*

Nature of Defects.	Number of Defects.
Drains not connected to Sewer	4
Offensive Cesspools and Gullies require Cleansing ...	14
Want of Cesspools	4
Want of Paving to Yards and around Gullies ...	15
Offensive Urinals, Defective Floors, Walls, and want of Ventilation to same	7
Bad Smells from Street Drains	10
Defective and dangerous Well Covering	1
Polluted Water in Domestic Wells	7
Nuisance from keeping Swine, Poultry, Dogs and Rabbits	9
Bad Smells in Houses	18
Damp Walls, Defective Roofs and Floors of Houses ...	9
Houses unfit for Habitation	1
Dirty Houses	6
Offensive and Dirty Areas	5
Closets requiring Limewashing	20
Defective Troughing, Leaking and Broken Fall Pipes ...	57
Want of Troughing to Houses	8
Insufficient Closet Accommodation	12
Dilapidated Privies, etc.	19
Privies and Ashpits to Convert	21
Broken Doors and Seats of Closets and Ash Tub Places	19
Want of Ash Tub Places	11

DISTRICT D.—*Continued.*

Nature of Defects.	Number of Defects.
Offensive Privies, Middens, Sewage and Filth Accumulations	48
Defective and Dangerous condition of Footpath ...	4
Drains tested	18
Visits to Houses	420
,, Fever Cases	251
,, Cowsheds	561
,, Factories	22
,, Workshops	94
,, Bakehouses	56
Rooms Disinfected	190
Fever Patients removed to Hospital	47
Samples obtained for Analysis	32

Ovenden and Illingworth.

TABLE SHOWING NUMBER OF PREMISES REQUIRING
INSPECTION BY THE DISTRICT INSPECTOR,
JOHN WOOD.

Description of Premises.	Number.	Number of Visits.
Bakehouses and Confectioners ...	4	18
Oat Bread Bakers ...	12	38
Cowsheds ...	217	561

DEFECTS IN COWSHEDS.

Nature of Defects.	Number of Visits.
Dilapidated Cowsheds ...	3
Want of Light ...	9
„ Ventilation ...	10
„ Airspace ...	8
„ Drainage ...	4
„ Middensteads ...	2
Cowsheds requiring Limewashing ...	117
Offensive Middensteads, Defective and Made-up Drainage, &c. ...	7
Drains to Disconnect ...	2
Offensive Tank to Cleanse ...	1
Swine in Cowshed ...	1
Defective Floors of Cowsheds... ..	2
	166

DEFECTS IN BAKEHOUSES.

Nature of Defects.					Number of Defects.
Bakehouses requiring Limewashing	...	...	...	...	7
Dirty Floors	...	..	...	...	2
Offensive Slops	...	...	...	...	1
Made-up Disconnecting Chamber	...	...	...	...	1
Sewage in Bakery	...	...	...	...	1
Accumulation of Rubbish	...	...	...	...	1
TOTAL					13

Streets Scavenging.

The following Table shows the work done in
this Department :—

OVENDEN AND ILLINGWORTH DISTRICTS.

W. GLEDHILL, FOREMAN.

Number of Miles of Setting	..	...	10
„ Streets Swept	...	...	1457
„ Loads of Sweepings	...	...	892
„ Gullies Emptied	...	...	12170
„ Roads Watered	...	..	404
Loads of Water used for that purpose		...	1107

TABLE SHOWING NUMBER OF ROADS AND STREETS
SWEEPED AND AREA IN YARDS BY THE
OVENDEN AND ILLINWORTH GANG.

Number of Roads and Streets Swept.	Number of times each Road and Street Swept.	Lineal Yards.	Square Yards.
1	99	115,236	921,888
1	98	65,268	522,144
4	95	170,230	959,755
2	94	125,772	754,632
1	93	9,300	55,800
1	68	9,044	72,352
1	67	75,040	487,760
1	55	11,000	77,000
3	49	82,810	522,585
2	47	42,341	254,046
1	32	6,400	32,000
1	26	8,320	49,920
1	17	12,410	74,460
3	15	67,485	464,400
3	14	11,200	70,000
1	13	2,080	12,480
1	11	5,500	33,000
1	8	3,200	19,200
29	801	822,636	5,383,422

Total Number of Miles Swept

...

467 $\frac{1}{4}$

WORKSHOPS.

TABLE SHOWING NUMBER OF TRADE PREMISES.

Trades.				Number.
Boot and Shoe Makers and Cloggers	...	..		150
Dress and Mantle Makers	...	...	...	130
Joiners and Cabinet Makers	...	...	...	72
Brush Makers	...	...	...	14
Saddlers	...	...	..	10
Mineral Water Makers	...	...	...	6
Milliners	...	...	...	68
Provision Merchant	...	...	...	1
Cotton Doublers	...	...	...	10
Rag Sorters	...	...	...	5
Coopers	...	...	...	4
French Polishers	...	...	...	17
Bakehouses	...	...	...	84
Tailors	...	...	...	60
Machine Makers	...	...	...	2
Flock Merchant	...	...	...	1
Marine Store Dealers	...	...	...	19
Silversmiths	...	...	...	11
Blacksmiths	...	...	...	28
Whitesmiths	...	...	...	24
Upholsterers	...	...	...	3
Coach Builders	...	...	..	5
Umbrella Makers	...	...	...	2

WORKSHOPS—*Continued.*

Trades.					Number.
Rope Makers	...	...	...	...	3
Box Makers	...	...	..	...	3
Wood Carvers	...	...	...	...	3
Selvage Clippers	...	...	...	...	8
Surgical Instrument Makers	..		..	...	1
Woolsorters	...	...	...	...	1
Fruit Boilers	...	...	...	...	2
Roller Coverer	...	...	...	...	1
Cork Cutters	...	...	..	...	1
Paper Maker	...	...	..	...	1
Gun Maker	...	...	...	...	1
Hosiers and Knitters	...		..	...	38
Carpet Repairers	..	...	..	...	7
Wheelwrights	.	..	...	...	11
Picture Frame Makers		...	...	...	4
Painter	...	...	...	.	1
Wire Workers	...	...	...	...	3
Basket Makers	...	...	...	...	5
Plumbers	...	...	...	...	3
Tinners	...	...	...	...	19
Printers	...	...	...	...	15
Locksmith	...	...	...	...	1
Sweet Boilers	...	...	...	...	2
Dentists	...	...	...	...	4

WORKSHOPS—*Continued.*

Trades.					Number.
Tripe Boilers	...	...	...	...	2
Cutler	...	...	...	...	1
Clog Sole Maker	...	...	...	...	1
Underclothing Makers	...	...	...	...	13
Belt and Brace Makers	...	...	...	...	6
Venetian Blind Makers	...	...	...	...	3
Billiard Table Maker	...	...	...	...	1
Electrical Engineer	...	...	...	...	3
Sewing Machine Maker	...	...	...	...	1
Piano Makers	...	...	...	...	2
Shirt Makers	...	...	...	...	2
Soap Makers	...	...	...	...	4
Watch Makers	...	...	...	...	7
Drysalter	...	...	...	...	2
Old Clothes Dealers	...	...	...	...	3
Leather Curriers	...	...	...	...	3
Boot Upper Makers	...	...	...	...	2
Pattern Makers	...	...	...	...	2
Mattress Makers	...	...	...	...	1
Cycle Works	...	...	...	...	1
Leather Cutter	...	...	...	...	1
Tea Packer	...	...	...	...	1
Sugar Packer	...	...	...	...	1
Brass Works	...	...	...	...	2
Designer	...	...	...	...	1
Laundry	...	...	...	...	1
Tanner	...	...	...	...	1
Clay Drier	...	...	...	...	1
Total	...	...	...	...	933

FACTORIES AND WORKSHOPS.

TABLE SHOWING NUMBER OF VISITS MADE TO
FACTORIES AND WORKSHOPS BY THE
DISTRICT INSPECTORS.

District.	Number of Visits made to Factories.	Number of Visits made to Workshops.	Number of Visits under the Shop Hours Act.
A	35	707	331
B	30	550	400
C	36	435	524
D	22	94	...
	123	1786	1255

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered :—

District A.

INSPECTOR JAMES ARCHBELL.

Nature of Nuisances.				Number Registered.
IN FACTORIES.				
Insufficient Privy Accommodation	...	...	...	28
Defective Water Closets	...	...	...	19
„ Drains	...	...	...	8
IN WORKSHOPS.				
Insufficient Privy Accommodation	...	...	...	19
Defective Water Closets	...	...	...	7
„ Drains	...	...	...	14
Want of Ventilation	...	...	...	4
Workrooms Overcrowded	...	...	...	13
„ requiring Limewashing	...	...	...	83
TOTAL	...	...	...	195

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered:—

District B.

INSPECTOR JOSEPH W. ASQUITH.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Defective Urinals	5
Insufficient Privy Accommodation	2
Defective Roof	1
Rooms to Limewash	1
Dirty Closets	8
IN WORKSHOPS.	
Rooms requiring Limewashing	31
Insufficient Privy Accommodation	3
Defective W. C.	1
Defective Sink Pipes	2
Dirty Closets	3
Defective Roof	1
Defective Fall Pipe	1
Total	59

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered :—

District C.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Made-up Lavatories	4
Insufficient Closet Accommodation	1
Flooded Cellars, Defective Drain	1
Made-up Sinks	1
Closets requiring Limewashing	6
Bad Smells	1
IN WORKSHOPS.	
Defective, Broken, and Made-up Water Closets	6
Insufficient Privy Accommodation	3
„ Ventilation	1
Dry Rot in Floor	1
Workrooms requiring Limewashing	20
Dirty Closets	4
Dangerous Floor	2
Water in Cellars from Defective Drains	2
Accumulation of Rubbish	1
TOTAL	54

FACTORIES AND WORKSHOPS.

Ovenden and Illingworth.

The following Table shows the nature of
Nuisances registered :—

District D.

INSPECTOR JOHN WOOD.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Insanitary Closet	1
Offensive Sewage	2
., Smoke	3
Insufficient Closet Accommodation	4
IN WORKSHOPS.	
Workrooms requiring Limewashing	4
Made-up W.C. Drain	1
Dirty Closets	2
No Abstract of Act	4
Broken Closet Door	1
Defective Floor	1
Made-up Gully	1
TOTAL	24

TABLE SHOWING NUMBER OF INFECTED HOUSES
VISITED BY THE DISTRICT INSPECTORS.

Wards.	Small-pox.	Typhus Fever.	Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Relapsed Fever.	Diphtheria.	Erysipelas.	Total.
Ovenden	4	40	...	...	...	1	...	45
Akroydon	1	26	...	..	...	5	...	32
North	8	20	...	1	...	3	..	32
Central	8	25	1	...	...	5	...	39
West	7	47	...	...	...	2	.	56
South	3	22	...	...	...	2	...	27
East	5	15	...	1	...	...	...	21
Southowram	18	56	...	...	..	1	...	75
Skircoat ...	2	...	6	17	...	..	...	8	...	33
Pellon	5	9	26	...	1	3	8	1	53
Kingston	5	22	...	...	..	6	...	33
Illingworth	3	10	...	...	...	...	...	13
Copley	2	4	...	1	...	...	...	7
TOTAL ...	2	5	79	330	1	4	3	41	1	466

TABLE SHOWING THE NUMBER OF INFECTIOUS
DISEASES REMOVED TO THE BOROUGH FEVER
HOSPITAL BY THE DISTRICT INSPECTORS
FOR THE YEAR 1900.

Wards.	Small-pox.	Typhus Fever.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Total.
Ovenden	2	26	1	29
Northowram	2	27	1	30
North	3	16	...	19
Central	5	20	...	25
West	4	36	1	41
South	1	9	...	10
East	3	8	...	11
Southowram	9	45	...	54
Skircoat ...	2	...	3	11	1	17
Pellon	5	4	22	...	31
Kingston	1	19	...	20
Illingworth	8	...	8
Copley	1	...	1
Warley	2	2	...	4
Out of Borough ...	1	...	3	2	...	6
TOTAL ...	3	5	42	252	4	306

ROOMS DISINFECTED.

THE FOLLOWING TABLE SHOWS THE NUMBER OF
ROOMS DISINFECTED BY THE DISTRICT
INSPECTORS DURING THE YEAR.

Wards.					Number of Rooms Fumigated.
Illingworth	...	...	...	...	46
Ovenden	...	...	...	...	110
Northowram	...	...	...	...	60
North	...	...	...	...	45
Central	...	...	...	...	88
West ...	...	...	...	...	80
South	...	...	...	...	36
Kingston	...	...	...	...	25
Pellon	...	...	...	...	103
East ...	...	...	...	...	42
Southowram	...	...	...	...	154
Skircoat	...	...	...	...	55
Warley	...	...	...	...	9
Copley	...	...	...	...	15
TOTAL					868

Rooms Disinfected at Public Elementary Schools.

THE FOLLOWING TABLE SHOWS THE NUMBER OF
ROOMS DISINFECTED AT THE FOLLOWING
SCHOOLS.

Names of Schools.					Number of Rooms Disinfected at various times.
Siddal	..	...	...	...	145
Caddy Field	...	...	...	..	47
Parish Church (Senior)		...	...	...	7
Parish Church (Junior)		...	...	...	9
Copley	...	...	...	...	8
Dudwell	...	...	...	...	8
Haugh Shaw	..	...	...	...	20
Pellon Lane	...	...	...	...	14
St. Marie's	..	...	...	...	12
St. Augustine's	...	..	...	.	16
Holy Trinity	...	...	...	...	8
Queen's Road	...	...	...	...	40
Warley Town Board		...	...	...	9
Warley Road	...	...	...	...	18
Parkinson Lane	...	...	...	...	15
Primitive Methodist, Queen's Road			...	...	10
TOTAL					386

Disinfection.

THE FOLLOWING TABLE SHOWS THE NUMBER AND
DESCRIPTION OF THE ARTICLES DISINFECTED
AT THE DISINFECTING HOUSE, STONEY
ROYD, DURING THE YEAR.

Description of Articles.						Number of Articles.
Beds	...	...	...	...	...	739
Mattresses	...	...	...	...	...	668
Pillows	...	...	...	...	...	1191
Sheets	...	...	...	...	...	1142
Bolsters	...	...	...	...	...	661
Blankets	...	...	...	...	...	1642
Counterpanes	...	...	...	...	...	616
Carpets and Rugs	...	...	...	...	...	348
Bed Furniture	...	...	...	...	...	10
Flannel Vests, Dresses and Petticoats	...	...	...	...	...	2383
Mats and Sundries...	...	...	...	...	...	5648
Dressing Gowns and Shawls	...	...	...	...	...	1024
Coats	...	...	...	...	...	453
Cushions	...	...	...	...	...	10
Trousers	...	...	...	...	...	293
Waistcoats	...	...	...	...	...	262
Hose	...	...	...	...	...	1153
Curtains	...	...	...	...	...	6
Drawers	...	...	...	...	...	731
TOTAL	...	...	...	...	...	18980

CANAL BOATS.

The Inspections are made periodically by the Chief Sanitary Inspector amongst his other duties.

During the year 44 Inspections have been made, and the Boats generally were clean and in good condition.

There has not been a single case of sickness or overcrowding on board.

In all cases where females and children were on board proper provision was made for the separation of the sexes. Of the 44 Boats inspected there were 3 with women and children on board, and 6 with women only. The children in 2 cases having been brought for the single journey only.

All Boats were free from bilge water, ventilation was fairly good, and good provision was made for the storage of water for domestic purposes.

All Boats plying in this district are registered either at Goole, Mirfield or Leeds, consequently no arrangements have been made for registration.

CANAL BOATS, 1900.

Number of Boats. Inspected.	Number Registered to Carry.	Number of Males on Board.	Number of Females on Board.	Total.
44	290	87	9	96

AGES OF CHILDREN FOUND ON CANAL BOATS.

	Years.							Total.
	1	2	4	6	7	8	12	
Number ...	1	1	1	1	1	1	1	7

TABLE SHOWING PROSECUTIONS UNDER THE PUBLIC HEALTH ACT AND FOOD & DRUGS ACT.

Date.	Defendant's Name.	Nature of Offence.	Decision of Court.						Remarks.		
			Penalties.			Costs.				Total.	
1900.			£	s.	d.	£	s.	d.	£	s.	d.
Jan. 5th ...	Halifax Industrial Society	Exposing for Sale 6 Rabbits which were unsound, Dec. 7th, 1899, in the Shop, North Parade	5	0	0	0	5	6	5	5	6
April 20th	Edwin Mitchell ...	Selling Milk with 18% of cream abstracted	2	0	0	0	19	0	2	19	0
July 27th ...	Sam Garth ...	Exposing diseased Meat for sale	2	10	0	0	7	0	2	17	0
July 27th ...	Sam Garth ...	Exposing unsound Meat for sale	2	10	0	0	7	0	2	17	0
Aug. 21st ...	Fred Wade ...	Having in his possession four pieces of diseased Meat intended for sale	20	0	0	1	16	0	21	16	0
Dec. 21st	Joshua Ayrton ...	Selling Milk with 20% of butter fat abstracted	1	0	0	0	7	6	1	7	6

GOUX DEPARTMENT.

The work in this department is rapidly on the increase, and with the growth of the Borough will continue to do so. It will be seen, in looking over the summary of work done in the department, that the increase of Closets during the year is 687, the largest number registered in one year since 1893. The increase in the number of Tubs changed and collected is 15,540 over 1899, and the increase in the number of loads of Ashes collected is 596 during the same period. This of course means increased cost, but as good Scavenging is an important factor in the health of a town, it ought to be considered money well spent. The same remark also applies to Street Scavenging, the two being inseparable if good and useful work is to be done. The number of Priy Middens within the Borough is 1160. Illingworth, Copley, Warley and Northowram accounting for 977, which are gradually being reduced by conversion to the Goux System, which will increase the cost of cleansing, but will also be the means of removing a great nuisance.

Bakehouses have been regularly inspected during the year, and a number of Improvements carried out by improved Drainage and better Ventilation, especially in Bakehouses below the ground level. It is gratifying to find that eight of these have been closed during the year.

Factories and Workshops have been regularly visited during the year, and found upon the whole satisfactory. No less than 1,909 visits have been

made during the year. 1,255 visits have also been made to Shops, to see that no young person was employed more hours than allowed by Act of Parliament, and that the requisite number of seats were provided for the Assistants.

Dairies and Cowsheds have been regularly visited during the year, and although considerable Improvements have been made in the past with regard to Light, Ventilation, and Air-space, the great majority of them are still in a very unsatisfactory state, but the New Regulations drafted out by our Medical Officer of Health should help us very materially with reference to the above. And when we have got what is required in this direction, the work is incomplete, if not backed up by cleanliness, and the latter in many cases is practically nil.

The importance of good Scavenging cannot be over estimated in its bearing upon the health of a Town. The difference between good and bad Scavenging, means a low or a high Zymotic Death Rate, and should not be crippled in its operations.

My thanks are again due to my Assistants and Mr. J. W. Jackson (Chief Clerk) for their valuable help in carrying out the work of the Department, which is constantly on the increase.

I am, Gentlemen,

Your obedient Servant,

DAVID TRAVIS,

Chief Sanitary Inspector.

County Borough of Halifax.

Report of the Borough Analyst

FOR THE YEAR ENDING DECEMBER 31st, 1900.

*To the
Chairman and Members of the Health Committee.*

GENTLEMEN,

During the past year I have analysed 210 samples of Foods and Drugs and 14 samples of Water for your Committee, in compliance with the provisions of the Sale of Food and Drugs Acts and the Public Health Act; this is 1·95 samples of Food and Drugs per 1000 of the population, which bears the following comparison to former years :—

Year.	Number of Samples Analysed.	Estimated Population of the County Borough.	Number of Samples Analysed per 1000 of the population.
1896	218	94,764	2·30
1897	201	95,747	2·09
1898	211	96,729	2·18
1899	205	100,471	2·04
1900	210	107,287	1·95

The nature and distribution of the samples analysed is shown in this table :—

Quarter of the Year			1st.	2nd.	3rd.	4th.	Total.
Milk	...	...	24	33	38	17	112
Butter	...	...	5	3	7	9	24
Margarine	...	...	...	...	...	1	1
Lard	...	...	...	...	...	1	1
Tea	...	...	5	...	...	...	5
Coffee	...	...	5	...	...	...	5
Tinned Peas	...	...	7	..	...	...	7
Honey	...	...	1	...	...	...	1
Jellies and Jams	..	...	...	...	...	15	15
Sweets	...	...	..	...	...	3	3
Treacles and Glucose	...	...	...	...	...	7	7
Beer and Stout	...	...	...	...	...	13	13
Hop Ale	..	..	...	...	...	1	1
Stone Ginger Beer	...	...	...	...	...	5	5
Equa Beer	...	...	...	...	...	1	1
Ærated Water	...	...	...	...	...	1	1
Herb Beer	...	...	...	...	...	1	1
Sweet Nitre	...	..	...	4	.	...	4
Phosphate of Soda	...	...	...	...	3	...	3
			47	40	48	75	210

Of these 91·9 per cent. have been genuine ; 3·33 per cent. of doubtful genuineness, and 4·76 per cent. have been adulterated, distributed as follows :—

			Genuine.	Doubtful.	Adulterated.
1st Quarter	...		38	2	7
2nd „	...		38	1	1
3rd „	...		44	3	1
4th „	..		73	1	1
			193	7	10

The percentage of adulteration for the year is slightly under the average for the previous 10 years as will be seen from the following record :—

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	Average
Percentage of Adulterated Samples.	11·4	6	3	5·4	6·7	1·5	3·2	5	3·3	6·3	5·18

Adulteration.—The cases of Adulteration in 1900 were :—5 samples of tinned peas containing from $3\frac{1}{2}$ to $4\frac{1}{5}$ grains of blue vitrol per pound ; 3 samples of milk with from 18 to 21 per cent. of fat abstracted, and 2 butters containing 51 and 62 per cent. of foreign fat respectively. A fine of £1 and 7s. 6d. costs was imposed in the worst milk case.

Arsenic in Beer.—There was great public alarm in the second half of the year owing to the serious results which had been found to arise from the presence of arsenic in beer, more particularly in Lancashire. No known cases had arisen in Halifax ; notwithstanding 13 samples of beer and stout, representative of what was being consumed in the Borough, were rigorously examined for the poison, which was found to be absent. Nor was any trace found in jellies, jams, glucoses and non-intoxicating beverages which were being used in the town. Halifax may thus be said to have been comparatively free from the danger, and I may add that in the course of my private work, very few beverages have been found with traces of arsenic in them, and then it has been in every case traced, with the anxious co-operation of the brewer, to the malt. The danger

has disappeared on a change of fuel and attention to the dust room of the malkiln. The Royal Commission on Arsenic Poisoning now sitting has been furnished with these facts respecting the Borough, in compliance with an official request made for them through the Secretary, Dr. Buchanan.

Water.—Of the 14 samples of water analysed, only 2 were passed as good; the remainder were either polluted or too highly plumbo-solvent, and the other being well-waters, with leaden piping, were condemned.

I am, Gentlemen,

Your obedient Servant,

WILLIAM ACKROYD,

PUBLIC ANALYST.



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